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# APPLICATIONS FOR ADMISSION AND FOR TRANSFER

LIST OF APPEICANTS.

The Constitution provides that the Board of Direction shall elect or reject all applicants for Admission or for Transfer, and, in order to determine justly the eligibility of each candidate, the Board must depend largely upon the Membership for information.

This list is issued to members in every grade for the purpose of securing all such available information, and every member is urged to scan carefully each monthly list of candidates and to furnish the Board with data in regard to any applicant which may aid in determining his eligibility. It is the *Duty* of all *Members* to the *Profession* to assist the Board in this manner.

It is especially urged, in communications concerning applicants, that errors in the record be pointed out and a Definite Recommendation as to the Proper Grading in Each Case be given, inasmuch as the grading must be based upon the opinions of those who know the applicant personally, as well as upon the nature and extent of his professional experience. If facts exist derogatory to the personal character or to the professional reputation of an applicant, they should be promptly communicated to the Board. Communications Relating to Applicants are considered by the Board as Strictly Confidential.

The Board of Direction will not consider the applications herein contained from residents of North America until the expiration of thirty (30) days, and from non-residents of North America until the expiration of ninety (90) days from November 1, 1927.

# MINIMUM REQUIREMENTS FOR ADMISSION

Grade	General Requirement	Age	Length of Active Practice	Responsible charge of work
Member	Qualified to design as well as to direct work	30 years	10 years*	5 years
Associate Member	Qualified to direct work	25 years	6 years*	1 year
Junior	Qualified for sub-professional work	18 yearst	2 years*	N. FRANKS
Affiliate	Qualified by scientific acquire- ments or practical experience to co-operate with engineers	Ming	etta natenti etta naketik lair omangik	M. W. S. W.
Fellow	Contributor to the permanent funds of the Society	100 v. VII	Colorador Colora	VS. THERICAL

<sup>\*</sup> Graduation from a school of engineering of recognized reputation is equivalent to 2 years' active practice.

<sup>†</sup> Membership ceases at age of 32 unless transferred to higher grade.

# LIST OF APPLICANTS.

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II) BARTON GEORGE HENR

The fact that applicants give the names of certain members as references does not necessarily mean that such members endorse.

The number in the center above each record indicates the serial number of the applicant for the current year, and that at the left the district in which he resides.

The abbreviations in Italics represent, respectively, TT, Total Time; SP, Sub-Professional Work; P, Professional Work; RC, Responsible Charge; D, Design. The figures showing the amount of time spent in Responsible Charge and on Design are the estimate of the Applicant. The allowance of two years for graduation and of one-third of a year for each academic year successfully completed in an engineering college without graduation is included in Total Time and Sub-Professional Work.

# FOR ADMISSION

#### 1466

(11) ADAMS, ARTHUR HARTWELL, 2277 Pine Ave., Long Beach, Cal. (Age 45. Born San Diego, Cal.) 1907 B. S., School of Mines, Univ. of Cal. TT 2: SP 2. July to Sept. 1907 Millman in Cyanide Plant, Midway Min. Co., Tonopah, Nev. TT 0.2: SP 0.2. Sept. 1907 to Jan. 1910 Chf. Assayer, Montgomery Shoshone Consolidated Mines Co., Rhyolite, Nev. TT 2.3: P 2.3: RC 2.3. Feb. to Oct. 1910 Chf. Underground Surveyor, Tonopah (Nev.) Extension Min. Co., in charge of all underground surveys and mapping for large mine, also supervised refining of gold and silver cyanide precipitates. TT 0.8; P 0.8; RC 0.8. Dec. 1910 to July 1911 Supt., cyanide plant, Geo. F. Roth Min. Co., Neal, Idaho, treating gold and silver ore. TT 0.6: P 0.6: RC 0.6. Aug. 1911 to July 1912 surveying and drafting. City Engr.'s Office, Long Beach, Cal. TT 0.9: SP 0.9. July 1912 to March 1913 with Union Tool Co., Torrance, Cal. as Engr. on construction of large industrial plant and warehouse at San Pedro; assisted on design of warehouse. TT 0.8; P 0.8; RC 0.7; D 0.1. April to Oct. 1913 Chf. of Field Party on subdivision and surveys for V. Hayes, Long Beach. TT 0.6: P 0.6: RC 0.6. Oct. 1913 to Feb. 1915 Supt., cyanide plant, Easton-Pacific Min. Co., Virginia City, Mont., treating gold and silver ore. TT 1.4: P 1.4: RC 1.4. April 1915 to May 1918 Surveyor, Draftsman and Chf. Draftsman, City Engr.'s Office, Long Beach, prepared specifications for street paving, sewers, etc. TT 3.1: SP 1.1: P 2: RC 2: D 2. May 1918 to Jan. 1919 Civilian Civ. Engr. on design of large Quartermaster Terminal for Constr. Div., U. S. Army (under R. C. Marshall, Jr., Brigadier General, U. S. A.), involving design of pile footings, concrete piers, reinforced concrete structures and railway tracks, surveys, mapping, etc. TT 0.8: P 0.8: D 0.8. Jan. 1919 to date with City of Long Beach, Cal., successively as Chf. Draftsman, Asst. City Engr., Asst. and Asst. Director of Public Service, and at present Acting City Engr.; had charge of plans and specifications and supervised construction of street paving, storm and sanitary sewers, street lighting systems, etc. TT 8.3: P 8.3: RC 8.3: D 8.3. TT 21.8: SP 4.2: P 17.6: RC 16.7: D 11.2. Refers to R. L. Anderson, G. E. Baker, C. K. Bowen, B. Harmon, C. T. Leeds, F. C. McMillan, R. D. Van Alstine, A. K. Warren.

1467

(1) ASH, LAWRENCE EDGAR, 280 Madison Ave., New York City. (Age 27. Born Metz, W. Va.) Sept. 1920 to Jan. 1923 Chainman, Consolidation Coal Co., and (after July 1922) Jamison Coal Co. TT 2.4: SP 2.4. Jan. 1923 to June 1924 Chf. of Party on surveys, etc., with Baton & Elliott and (after April 1924) Blum, Welden & Co. TT 1.4: P 1.4: RC 1.4. Aug. 1924 to April 1925 Supt. Eng., Colman Coal Co., in charge of operation and engineering of coal mine. TT 0.8: P 0.8: RC 0.8. April to Aug. 1925 Draftsman, City of Ft. Thomas, Ky., mapping city for design of sewer system. TT 0.4: P 0.4: RC 0.4. Aug. 1925 to Sept. 1926 Chf. of Party, Lucerne-in-Maine, in charge of Survey Corps on subdivision and road building. TT 1: P 1: RC 1. Sept. 1926 to Feb. 1927 Jun. Engr., Board of Transportation, on computations for subway construction and Chf. of Party on field work. TT 0.5: SP 0.3: P 0.2: RC 0.2. March 1927 to date Constr. Engr., New York Steam Co., being Engr., in

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(1) BARTON, GEORGE HENRY, 54 Bleeker St., Newark, N. J. (Age 23. Born Natchez, Miss.) Student in Civ. Eng., Univ. of Alabama (Sept. 1923 to June 1924) and Rose Polytechnic Inst. (Sept. 1924 to June 1925). TT 0.7: SP 0.7. May 1922 to Sept. 1923 Clerk, Student Draftsman and Chf. Clerk, Cuyamel Fruit Co., in office of Chf. Engr., on railroads, drainage, irrigation, etc. TT 1.3: SP 1.3. June to Sept. 1924 Instructor, Chimney Rock Camp for Boys. June 1925 to Aug. 1926 Transitman, Asst. Engr. and Res. Engr., with Carr & McFadden, Inc., West Palm Beach, Fla., on municipal layout, roads and streets, surveys, supervision of construction, etc. TT 1.2: SP 0.2: P 1: RC 1: D 0.5. Aug. 1926 to Aug. 1927 Cost Engr., Ulen & Co., New York City, on computations, estimates, analysis reports, etc. TT 1: P 1: RC 1. TT 4.1: SP 2.1: P 2: RC 2: D 0.5. Refers to G. W. Carr, L. M. Gray, R. E. Hutchins, R. L. McCormick, P. H. Myers, R. Nebolsine, G. W. Sackett.

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(2) BENAMI, HIRAM, Mohawk Trail, North Adams, Mass. (Age 24. Born Rishon-le-Zion, Palestine.) 1927 B. S. in Civ. Eng., Mass. Inst. Tech. TT 2: SP 2. Refers to C. B. Breed, C. M. Spofford.

1470

(1) BERGLE, CHARLES KALMAN, 211 Jane Street, Weehawken, N J. (Age 23. Born in Austria, Hungary.) 1926 B. C. E., Ohio State Univ. TT 2: SP 2. June 1926 to April 1927 Draftsman, structural steel, Bethlehem (Pa.) Steel Co. TT 0.8: SP 0.8. April 1927 to date with John C. McKenna, Gen. Contr., Union City, N. J., estimating and supervising construction. TT 0.4: SP 0.4. TT 3.2: SP 3.2. Refers to C. I. Bausher, C. T. Morris, J. R. Shank, C. E. Sherman.

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(3) BERNSON, RALPH BERTIL, 835 Dean St., Schenectady, N. Y. (Age 25. Born Gothenburg, Sweden.) 1926 B. S. in C. E., Union Coll. June 1926 to Sept. 1927 with Ingersoli-Rand Co., three months in shops, then Salesman, Pneumatic Tool Dept., Philadelphia office. TT 2: SP 2. Refers to F. P. McKibben, W. C. Taylor.

1472

(11) BLACKBURN, DURA ALBERT, Box 268, Calexico, Cal. (Age 47. Born Laramie, Wyo.) 1902 to 1905 Chainman and Transitman for various engineers. TT 2.5: SP 2.5. 1905 to 1906 private practice, subdivisions, Alhambra, Cal. TT 1.3: P 1.3: RC 1.3. 1906 to 1907 on architectural designing and drafting, with Mexican Eng. and Constr. Co. (6 months) and American Eng. and Constr. Co. of Mexico City (6 months). TT 1: P1: D 0.5. 1908 to 1909 Chf. of Party, City of Monrovia. TT 2: P 2. 1909 to 1911 with Southern California Edison Co., as Asst. Engr. on steam-plant construction, location and construction of transmission lines, and location of hydro-electric projects. TT 2.2: P 2.2. 1913 to July 1914 Engr., Alameda Sugar Co., in charge of development of 1 400-acre beet ranch, including installation of pumping plant and pipe line for irrigation system. TT 1.6: P 1.6: P 1.8: D 0.3. Aug. 1914 to Feb. 1915 Engr. for R. H. Satterwhite, Downey, Cal., on government land survey contract, irrigation and land development. TT 0.6: P 0.6: RC 0.6. March 1915 to March 1918 Engr., Timken Ranch Co. of Imperial Valley, in charge of land development on nine ranches. TT 3: P 3: RC 2.6: D 0.4. March to May 1918 private practice of irrigation and development work. TT 0.1: P 0.1: RC 0.1. May 1918 to Dec. 1919 with Copper Queen Consolidated Mining Co., Bisbee, Ariz., as Surface and Underground Mine Engr., on railroad and transmission line location and construction and mill construction. TT 1.7: P 1.7: RC 0.7. Dec. 1919 to Aug. 1921 Project Engr., Pima County Highway Comm., Tucson, Ariz., on highway location and construction. TT 1.7: P 1.7: RC 1.2: D 0.3. Jan. 1923 to date Engr. in Chg., Delta Canal Co., S. A., Calexico, Cal., in charge of 18 miles of street improvement under 1911 Act for City of Calexico; development of 100 000 acres of land in Colorado River Delta, including irrigation systems, pumping plants, wells, levee protection, leasing of land, distribution and sale of water and general administration of project. TT 4.7: P 4.7: RC 4.4: D 0.3. TT 22.4: SP 2.5: P 19.9: RC 12.2: D 1.8. Refers to J. C. Allison, H. W. Dennis, P. M. Entenman, F. B. Kendall, H. M. Rouse.

1473

(9) BLODGETT, JAMES HERBERT, 502 Municipal Bldg., Akron, Ohio. (Age 28. Born Lexington, Mass.) 1919 to 1923 with Town of Lexington, Mass., until 1921 as Inspector on sewer construction, etc., timekeeping, recording, etc., then Instrumentman, Chf. of Party and Draftsman on survey, allotment and development, topography and minor construction, and 1 year Instrumentman and Chf. of Party on street layouts, surveys, sewer and water lines and grades. TT 3.4: SP 2.9: P 0.5: RC 0.3. April to Nov. 1923 Asst. Engr. with Metcalf & Eddy, Boston, Mass., on sewage-treatment plant construction and housing development. TT 0.6: SP 0.3: P 0.3: RC 0.2. Dec. 1923 to date Asst. Engr., City of Akron, on design and construction of sewage-treatment plant, preliminary investigations, design, supervision of construction and testing materials. TT 3.9: SP 1: P 2.9: RC 1.5: D 1.4 TT 7.9: SP 4.2: P 3.7: RC 2: D 1.4. Refers to R. A. Allton, H. P. Eddy, H. P. Eddy, Jr., S. Keith, W. R. LaDue, L. LaRue, J. E. Root, A. L. Shaw.

1474

(13) BLUMBERG, OSCAR CHARLES, 1558 Beverly Place, Berkeley, Cal. (Age 24. Born San Francisco, Cal.) 1926 B. Sc., Univ. of Cal. TT 2: SP 2. Summer 1920 Rodman, Southern Pacific Co., June to Sept. 1922 Rodman, City Engr.'s Office, Sacramento. Summer 1923 and Feb. to May 1924 Rodman, California Highway Comm., Sacramento. July to Aug. 1925 San. Engr. Asst., U. S. Public Health Service. May to Sept. 1926 Jun. Office Engr., Div. of Eng. and Irrigation, State of California. TT 0.3: SP 0.3. Oct. to Nov. 1926 Inspector of Structures, Nevada Irrigation Dist. Jan. to March 1927 Inspector, California Harbor Comm., San Francisco. TT 0.3: SP 0.3. March to Aug. 1927 Asst. Engr., Univ. Engr.'s Office, Univ. of California, Berkeley, Cal. TT 0.5: SP 0.5. Aug. 1927 to date Draftsman, Eng. Dept., California Water Service Co., San Francisco. TT 0.2: SP 0.2. TT 3.3: SP 3.3. Refers to P. Bailey, J. G. Bastow, C. Derleth, Jr., H. B. Foster, C. G. Hyde, C. Maughmer, P. A. Swafford.

1475

(8) BLYE, EUGENE NORMAN, 1351 East Fifty-Third St., Chicago, Ill. (Age 23. Born Washington, D. C.) 1926 B. S., Univ. of Ill. TT 2: SP 2. Summers 1923-1925 Chainman, Chicago, Rock Island & Pacific Ry. Aug. 1926 to Sept. 1927 Draftsman, Byllesby Eng. & Management Corporation, designing and drafting on power-plant projects. TT 1.1: SP 1.1. TT 3.1: SP 3.1. Refers to M. L. Enger, M. S. Ketchum, T. D. Mylrea, L. K. Whitcomb, Jr., C. C. Williams.

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(8) BONNELL, RALPH ARNOLD, 606 South Michigan Ave., Chicago, Ill. (Age 45. Born Lincoln, Nebr.) Nov. 1901 to Oct. 1905 successively as Rodman, Rock Island Ry., Masonry Inspector on concrete arches, Illinois Central Ry., and (after Oct. 1903) with City of Chicago, as Paving Inspector, Rodman and Engr. on Southside sidewalk. TT 3.9: SP 3.9. Oct. 1905 to Jan. 1911 Engr., Asst. and part of time in charge on Lawrence Ave. shield tunnel under Lake Michigan, Lawrence Ave. crib for intake, etc. TT 5.2: P 5.2: RO 4. Jan. 1911 to Nov. 1912 Engr., M. H. McGovern and Green & Sons Co., on La Salle Street tunnel under Chicago River. TT 1.9: P 1.9. Nov. 1912 to Nov. 1913 Supt., Security Bridge Co., Minneapolis, in charge of piers for Lewiston, and Orofina, Idaho, bridges over Clearwater River, and put intake for municipal water supply for City of Lewiston. TT 1: P 1: RC 1: D 0.2. Nov. 1913 to July 1915 City Engr., Lewiston, designed and engineered sidewalk, street, sewer and small bridge improvements. TT 1.6: P 1.6: RC 1.6: D 1.6. Jan. 1916 to May 1918 Engr. and Supt., John F. Casey Co., Pittsburgh, designed and operated shields (13 ft. and 7 ft.) in tunnels under Milwaukee River and West Water Street. Milwaukee, designed (complete shop drawings) shield (diameter, 51/2 to 12 ft.), false work and centers for large concrete arches in Fairmount, W. Va.; rebuilt trestles and ore bins for blast furnaces at Letonia, Ohio; designed air heads and locks for recovery of two tunnels. TT 2.2: P 2.2: RC 1: D 1.2. May 1918 to Feb. 1919 Engr. in charge for Ottomar Stange, in production of manganese, Narrows, Va. TT 1.8: P 1.8: RC 0.8: D 0.2. Feb. 1919 to Jan. 1927 Chf. Engr., Green & Sons Co., Chicago, siphon under Menomonee River, Milwaukee, shield and air pressure tunnel; Marseilles Lock, Illinois Waterway, sewer system, Anderson, Ind., lockport lock, Illinois waterway, replacing 31/2 miles of channel wall for San. Dist. Cook Co.; Dec. 1920 to May 1921 (loaned to Illinois Slag & Ballast Co.) designed, built and operated shield for two tunnels under railroad elevations in South Chicago. TT 7.9: P 7.9: RC 7.9: D 2. Jan. 1927 to date Engr. of Constr. for James O. Heyworth, Inc., Chicago, Ill., assisted on completion of Ford Bridge over Mississippi River between St. Paul and Minneapolis, and at present building seawall in Illinois River at Beardstown, III. TT 0.7: P 0.7: RC 0.7: D 0.2. TT 26: SP 3.9: P 22.1: RC 17: D 5.4. Refers to M. G. Barnes, W. J. Cahill, L. D. Cornish, J. O. Heyworth, E. J. Kelly, W. M. Smith.

1477

(9) BRIELMAIER, ALPHONSE ANTHONY, 12403 Superior Ave., Cleveland, Ohio. (Age 22. Born Chicago, Ill.) 1926 B. Sc., Case School of Applied Science. TT 2: SP 2. July to Sept. 1924 Chf. of Party on topographic work and July to Sept. 1925 Draftsman on paving and sewer work, Cleveland Eng. Dept. April 1926 to date concrete designing, Whitacre Eng. Co., Cleveland, on reinforced concrete commercial buildings. TT 1.4: SP 1.4. TT 3.4: SP 3.4. Refers to C. A. Miller, F. H. Neft.

(1) BROTHERTON, WILLIAM WALLIS, 5 West Sixty-Third St., New York City. (Age 23. Born New York City.) 1925 B. S., and 1926 C. E., Coll. of City of N. Y. TT 2: SP 2. July 1926 to June 1927 Jun. Drattsman, Office of Engr. of Structures, Erie R. R. TT 0.9: SP 0.9. June 1927 to date Draftsman, Eng. Dept., Turner Constr. Co. TT 0.3: SP 0.3. TT 3.2: SP 3.2. Refers to R. E. Goodwin, F. O. X. McLoughlin, E. P. Quirk.

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#### 1479

(4) BURRIS, MICHAEL MURRAY, P. O. Box 703, Trenton, N. J. (Age 33. Born New York City.) Licensed Mun. Engr. and Land Surv., State of New Jersey. 1915 B. S. in Forestry, Univ. of Wash. May to Oct. 1914 Forest Guard, on location and construction of trails and roads, Olympic National Forest, and June to Oct. 1915 Reconnaissance, topographical survey, Oregon National Forest, U. S. Forest Service. TT 0.6: SP 0.6. March to Dec. 1916 in charge of park construction, Stanley Quarter Park, New Britain, Conn. TT 0.8: SP 0.8. Dec. 1916 to Dec. 1918 (except Sept. to Dec. 1917 in military service) City Park Landscape Engr., Trenton, N. J., engineering and maintenance of city parks. TT 1.8: P 1.8: RC 1.8. Jan. 1919 to Aug. 1924 member of firm, Black, Burris & Fiske, Landscape Engrs., surveys, plans, supervision and construction of parks, subdivisions, athletic fields, golf courses, etc., in New Jersey (some named in application). TT 5.6: P 5.6: RC 5.6. Sept. 1924 to Feb. 1926 in private practice as Landscape and Civ. Engr., on plans, surveys and construction of realestate subdivision, streets, water, gas and lakes, Langhorne, Pa., and surveys, engineering and supervision of construction of athletic fields and tennis courts for George School, Newtown, Pa. TT 1.5: P 1.5. April 1926 to date member of firm, J. H. Holcombe, Inc., Landscape & Civ. Engrs., on surveys, plans and supervision of construction of athletic fields, roads, drainage and grading for schools in Lambertville, Bordentown and Trenton, N. J., and Doylestown, Pa., etc. TT 1.6: P 1.6: RC 0.5. TT 11.9: SP 1.4: P 10.5: RC 7.9: D 4. Refers to J. E. English, M. Goodkind, A. C. Gregory, H. F. Harris, A. Swan, Jr.

#### 1480

(13) CALLERI, ARMAND JOHN, 450 Fortieth St., Oakland, Cal. (Age 27. Born Loomis, Cal.) 1922 B. S. in C. E., St. Marys Coll., Oakland, Cal. TT 2: SP 2. June 1922 to July 1924 with Clyde Fuller Smith, Cons. San. Engr., Huntington Park, Cal., until Aug. 1923 as Draftsman, then Asst. Engr., on investigations, reports, design, plans and specifications for sewage-disposal works, structural designs, etc. TT 2: P 2: RC 2: D 2. July 1924 to Sept. 1926 with East Bay Water Company, Upper San Leandro Project, until May 1925 as Asst. Engr. on design, and May 1925 to May 1926 Res. Engr., on construction, filtration plant; May to Sept. 1926 Res. Engr. on construction of spillway and on completion of dam. TT 2.2: P 2.2: RC 2.2: D 2.2. Sept. to Dec. 1926 Field Engr., Port Costa (Cal.) Water Co., additional water supply investigation. TT 0.2: P 0.2: RC 0.2: D 0.2. Dec. 1926 to date Asst. Engr., East Bay Water Co., on cost detail and completion report on Upper San Leandro Project. TT 0.8: P 0.8: RC 0.8: D 0.8. TT 7.3: SP 2: P 5.3: RC 5.3: D 5.3. Refers to D. W. Albert, R. E. Davis, C. G. Gillespie, G. W. Hawley, C. G. Hyde, W. J. Manetta, G. V. Rhodes.

## 1481

(9) CARLTON, WILLIAM WALTER, 3337 Trimble Ave., Cincinnati, Ohio. (Age 29. Born Keensburg, Ill.) May 1918 to Jan. 1920 Masonry and Bridge Inspector, Cleveland, Cincinnati, Chicago & St. Louis Ry. Co., on bridge and building construction. TT 1.6: SP 1: P 0.6: RC 0.6. Jan. 1920 to Jan. 1921 Draftsman, Eng. Dept., Ferro Concrete Constr. Co. TT 1: SP 1. Jan. 1921 to April 1922 Draftsman, Rapid Transit Comm., Cincinnati, general drawings, estimates, field layout and inspection. TT 1.3: SP 0.3: P 1. April to Oct. 1922 Structural Draftsman, Euphrat & Hanly, Cons. Engrs., Cincinnati, building design. TT 0.5: P 0.5. Oct. 1922 to May 1923 Structural Draftsman and Designer, Edwards Mfg. Co., Cincinnati, design, estimating, etc. in connection with steel mill building sales. TT 0.6: P 0.6: D 0.6. May to July 1923 Asst. Engr., Union Gas & Elec. Co., Cincinnati, design, layout and superintendence of coal pit and yard track construction and installation. TT 0.3: P 0.3: RC 0.3: D 0.8. July 1923 to Oct. 1924 Draftsman and Designer, Hake & Kuck, Archts., Cincinnati. TT 1: P 1: D 0.5. Dec. 1923 to June 1927 Asst. Structural Engr. on investigation and approval of building design and construction, and June 1927 to date Chf. Structural Engr., being head of Eng. Div., Dept. of Bldgs., Cincinnati. TT 1.7: P 1.7: RC 1.7: D 1.7. TT 8: SP 2.3: P 5.7: RC 2.6: D 3.1. Refers to J. R. Biedinger, H. J. Gould, H. W. Hanly, E. C. Harding, F. W. Morrill, F. L. Raschig, C. M. Stegner.

#### 1482

(1) CLARK, WILLIAM HOWARD, Jr., Care, H. L. Dodson, Southfield Pt., Stamford, Conn. (Age 23. Born New York City.) 1927 B. S. in C. E., Lafayette Coll. June to Sept. 1925 Rodman, Parsons Eng. Co., Stamford, Conn., Aug. to Oct. 1926 Draftsman, Havekost & Lada, New York City. TT 2: SP 2. Refers to F. O. Dufour, W. S. Lohr, L. Perry.

(2) CLARY, WILLIAM RAYMOND, 862 Beacon St., Boston, Mass. (Age 24. Born Martinsburg, W. Va.) 1927 B. S. in C. E., Univ. of Fla. At present with Public Health Div., Commonwealth of Massachusetts. TT 2: SP 2. Refers to H. D. Mendenhall, P. L. Reed. 1484

(4) CLUTZ, JOHN JACOB, 566 Federal St., Camden, N. J. (Age 23. Born Carthage, Ill.) 1924 B. S. in C. E., Gettysburg (Pa.) Coll. July 1924 to Sept. 1925 with Louisville & Nashville R. R., successively as Rodman, Field Draftsman and Instrumentman, part of time in charge of location party. TT 1.2: SP 1.2. Sept. to Oct. 1925 Rodman, Atlantic Coast Line R. R. Sept. 1925—May 1926 Computer and Engr. Computer, New York Central R. R., on valuation work. TT 0.7: SP 0.7. June 1926 to date with Pennsylvania R. R., 8 months as Classified Rodman, M. of W. Dept., Philadelphia Div., also Engr. in charge of construction of eastern region scrap dock at Lucknow, and since Feb. 1927 Asst. Supervisor of Track No. 11, Atlantic and Camden Terminal Div., supervising maintenance-of-way, etc. TT 1.4: SP 0.7: P 0.7. TT 3.3: SP 2.6: P 0.7. Refers to J. B. Long, E. F. McClintock, W. F. Miller, G. R. Smiley, A. D. Wolff, Jr.

#### 1485

(11) COBB, NORMAN FREMONT, 1840 South Olive Ave., Alhambra, Cal. (Age 38. Born Los Angeles, Cal.) Student, Univ. of Utah (1908 to 1909) and Leland Stanford, Jr., Univ. (1909 to 1910). TT 0.6: SP 0.6. May-July 1910 Chainman, Santa Fe R. R. TT 0.3: SP 0.3. Aug. 1910 Axeman, Los Angeles & Salt Lake R. R. TT 0.1: SP 0.1. 1911 Instrumentman and Engr., with J. A. Bernal, on subdivision work. TT 1: SP 0.1: P 0.9: RC 0.5: D 0.2. Feb.-May 1912 Draftsman, Pacific Telephone & Telegraph Co. TT 0.3: SP 0.3. June 1912-Aug. 1914 Draftsman, Rodman and Estimator, Santa Fe R. R., on revaluation work. TT 2.2: SP 2.2. Sept. 1914-Aug. 1918 Draftsman, with Los Angeles City Engr., on sanitation, drafting and design (6 months), Los Angeles County Surveyor (31/2 years) and Los Angeles Road Dept. (4 months). TT 4: SP 3.9: P 0.2: D 0.2. Sept.-Nov. 1918 Civ. Engr., U. S. Govt. office work. TT 0.2: SP 0.2. Dec. 1918 to date Sr. Draftsman, Asst. Chf. Draftsman and Chf. Draftsman, with J. E. Rockhold, Los Angeles County Surveyor and TT 17.6: SP 13.2: P 4.4: RC 3.8: County San. Engr. TT 8.8: SP 5.5: P 3.3: RC 3.3. D 0.4. Refers to O. F. Cooley, W. F. Foster, W. E. Jessup, A. Jones, H. M. Jones, J. H. Payne, A. M. Rawn.

#### 1486

(7) COLEMAN, ROBERT HUMPHREYS, 204 Cass Ave., Mount Clemens, Mich. (Age 31. Born Princeton, Ky.) Jan. 1921 to June 1924 with City of Paducah, Ky., as Draftsman, Rodman, Inspector and Computer on design and construction of storm and sanitary sewers; after April 1921 also with Board of Drainage Commrs., McCracken County, Ky., as Rodman, Inspector, Computer, and Asst. Engr. on construction of open-ditch land reclamation works. TT 4.2: SP 4.2. June 1924 to Jan. 1925 with City of Grand Rapids, Mich., as Res. Engr. on construction of monolithic reinforced concrete relief sewers. TT 0.6: P 0.6. Jan. to April 1925 Engr., Board of Drainage Commrs. of McCracken County, on inspection and report on reclamation works. TT 0.2: P 0.2: RC 0.2. April 1925 to July 1927 with City of Jackson, Mich., as Constr. Engr. in charge of pavement, sidewalk, etc. TT 2.3: P 2.3: RC 1.8. Sept. 1927 to date with County Drain Commr. of Macomb County, Mount Clemens, Mich., as Res. Engr. on construction of enclosed county drains. TT 0.2: P 0.2. TT 6.5: SP 3.2: P 3.3: RC 2. Refers to W. L. Arnold, W. R. Drury, D. M. Hatch, G. D. Kennedy, H. A. Pulliam, E. C. Shoecraft.

# 1487

(11) COLEMAN, THEODORE CLEAVELAND, 1769 Orangewood Ave., Pasadena, Cal. (Age 23. Born Morenci, Ariz.) 1926 B. S., in Engineering and Economics, Cal. Inst. Tech. TT 2: SP 2. Oct. 1926 to date Draftsman with Los Angeles County Road Dept. TT 1: SP 1. TT 3: SP 3. Refers to E. A. Burt, F. J. Converse, W. W. Michael, R. A. Muenster, F. Thomas.

#### 1488

(5) CONAHEY, GEORGE, 1824 S St., N. W., Washington, D. C. (Age 30. Born Port Norris, N. J.) 1920 A. B. in Civ. Eng., Swarthmore Coll. TT 2: SP 2. Aug. 1920 to Aug. 1921 Jun. Engr., Empire Gas & Fuel Co., Bartlesville, Okla. TT 1: SP 1. Aug. 1921 to June 1922 Draftsman and Timekeeper for Sam Lindstrom, Structural Steel Contr., Philadelphia, Pa. TT 0.8: SP 0.8. June 1922 to Jan. 1924 Testing Engr., until April 1923 with Western Elec. Co., Philadelphia, then in Structural Materials Research Laboratory, Lewis Inst., Chicago, Ill. TT 1.6: SP 1.6. Jan. 1924 to March 1925 Engr., Service Dept., Portland Cement Assoc., New York City. TT 1.2: P 1.2: RC 1.2. March to Sept. 1925 Mgr., Dept. Concrete Control, for Elwyn E. Seelye, New York City. TT 0.5: P 0.5: RC 0.5. Sept.

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Conn. 1925 Lada, 1925 to July 1926 Inspector, Portland Cement Assoc., New York City; Draftsman, West-chester County Park Comm. TT 0.5: SP 0.5. July 1926 to date Research Associate, The Celife Company Fellowship, Bureau of Standards, Washington, D. C. TT 1.1: P 1.1: RC 1.1. TT 8.7: SP 5.9: P 2.8: RC 2.8. Refers to A. T. Goldbeck, E. F. Kelley, E. H. Maier, W. A. Slater, N. B. Wade, S. Walker.

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## 1489

(8) CROSBY, MILTON ELWOOD, 4435 North Winchester St., Chicago, Ill. (Age 36. Born Minneapolis, Minn.) 1916 M. E., Cornell Univ. TT 2: SP 2. Summers 1907 to 1915 with his father, as Millwright and Millwright Supt. on flour-mill construction. Sept. 1916 to 1918 Designer and Estimator on mills, grain elevators and concrete, steel and wood industrial buildings at Ft. William, Ontario, and 1919 (6 months) Field Engr. on construction of reinforced concrete grain elevator at Montreal, Quebec, all for Fegles Constr. Co. TT 1.9: P 1.9: RC 1: D 1.4. 1918 with U. S. Army, at Engr. Officers' Training Camp, Camp Humphreys, Va., later with 151st Engrs. at Camp Shelby, Hattiesburg, Miss.; at present Lieut., Engr. Officers' Reserve Corps. TT 0.6: SP 0.6. 1919 (6 months) with James Stewart Co., Chicago, Ill., as Designer and Estimator of reinforced concrete grain elevators. TT 0.5: P 0.5: D 0.5. 1920 to 1925 with John S. Metcalf Co., Montreal, until 1924 at Australian office, as Chf. Draftsman on reinforced concrete grain elevators, etc. (2 years), Asst. Chf. Engr. being second in charge of office (1 year) and Chf. Engr. in charge of office (1 year), on concrete grain-elevator, cotton-mill, and some cement plant construction; 1924 to 1925 European Representative, developing grain-elevator construction. TT 5: P 5: RC 5. 1925 to date with Burrell Eng. & Constr. Co., Chicago, concrete grain elevator and cement plant construction, until 1926 as Sales Engr., on design, etc., and since Jan. 1927 Chf. Engr. in charge of engineering and on sales work. TT 2.3: P 2.3: RC 1.8: D 0.5. TT 12.3: SP 2.6: P 9.7: RC 7.8: D 2.4. Refers to W. S. Bellows, E. F. Carter, D. B. Fegles, S. C. Hulse, J. A. D. Macbeth, S. H. Smith.

#### 1490

(8) DALRYMPLE, JOSEPH ISAAC, 165 Cherry St., Janesville, Wis. (Age 25. Born Chicago, Ill.) 1927 B. S., Kans. State Coll. At present Jun. Testing Engr., Illinois Div. of Highways. TT 2: SP 2. Refers to L. E. Conrad, H. W. Crawford, F. F. Frazier, M. W. Furr, L. V. White.

#### 1491

(1) DIAZ SEGURA, MIGUEL ANTONIO, Carrera 3a, 152 East, Bogota, Colombia. (Age 28. Born Bogota, Colombia.) 1925 C. E., Pol. Inst. of Brooklyn. TT 2: SP 2. Feb. 1923 to June 1925 Draftsman, Computer and Asst. to Surveyor, plotting maps, Lawyers Title & Trust Co., Jamaica, N. Y. TT 2.3: SP 2.3. June 1925 to Oct. 1927 Structural Draftsman, Board of Transportation, Designs Div., New York City, drafting, checking and computing design. TT 2.2: SP 2.2: D 1.2. TT 6.6: SP 6.6: D 1.2. Refers to H. P. Hammond, C. W. Hudson, E. J. Squire.

# 1492

(1) DICKMAN, FRANKLIN JOSEPH, 120 Broadway, New York City. (Age 24. Born Chicago, III.) 1925 B. S. in C. E., Univ. of Mich. TT 2: SP 2. March to June 1925 on valuation, Illinois Central R. R. TT 0.3: SP 0.3. Aug. to Sept. 1925 Transitman, Swiss National Ry. TT 0.2: P 0.2. Nov. 1925 to Dec. 1926 with Phoenix Utility Co. in Florida as Transitman, Chf. of Party, Inspector and Engr. in charge of field engineering and construction of wood-pole transmission lines. TT 1.1: P 1.1: EU 0.3. Jan. 1927 to date Asst. to Civ. Engr., Stevens & Wood, Inc., on estimate, design and construction of steam and electric power plants and gas-generating plant. TT 0.8: P 0.8: RC 0.4: D 0.2. TT 4.4: SP 2.3: P 2.1: RC 0.7: D 0.2. Refers to J. C. Balcomb, J. W. F. Bennett, W. C. Hoad, F. E. Murphy, H. E. Riggs, W. E. Swift, J. S. Worley.

# 1493

(1) DOBROWOLSKI, THEODORE JOHN, 153 East Second St., New York City. (Age 27. Born New York City.) 1927 C. E., Pol. Inst. of Brooklyn. TT 2: SP 2. Refers to H. R. Codwise, H. P. Hammond, C. W. Hudson, E. J. Squire.

## 1494

(1) ENGLISH, JOHN GREER, 92 Tiona Ave., Belleville, N. J. (Age 40. Born Philadelphia, Pa.) May 1907 to Aug. 1911 with Ruddach & McCracken, Jenkintown, Pa., as Rodman, Chainman, Instrumentman and Chf. of Party. TT 4.2: SP 4.2. Aug. 1911 to Aug. 1923 with Pennsylvania State Highway Dept., until Jan. 1916 Instrumentman and Chf. of Party, Philadelphia Dist., then Dist. Supt. of Wayne and Pike Counties. TT 12: SP 4.4: P 7.6: RC 7.6 Aug. 1923 to July 1926 Supt. and Engr., H. B. Sproul Constructo., Scranton, Pa., highway construction. TT 2.9: P 2.9: RC 2.9. July to Sept. 1926 Supt. of highway construction, Stento and Serafini, Binghamton, N. Y. TT 0.2: P 0.2: RC 0.2.

Sept. 1926 to date with Stange Const. Co., Philadelphia, Pa., as Constr. Engr. on bridges and viaduct, at present on contract Sec. 11, Route 1 Extension, New Jersey State Highway Comm. TT 1: P.1: RC 1. TT 20.3: SP 8.6: P 11.7: RC 11.7. Refers to R. M. Beck, G. H. Biles, L. F. Driscoll, H. R. Gabriel, S. Johannesson, R. S. Jones, R. D. Richardson, L. R. Shellenberger.

1495

(i) FERRIS, CHARLES BIRDSALL, 758 North Broadway, Yonkers, N. Y. (Age 23. Born New York City.) 1927 C. E., and B. S. in C. E., N. Y. Univ. TT 2: SP 2. Summers 1924 and 1925 and March-May 1926 (while student) with Thomas Crimmins Contr. Co., New York City, as Asst. Engr., laying out foundations, in charge of engineering work of two office buildings, a waterless gas holder, a theatre and a factory building. May 1926-Feb. 1927 (while student) with Leddy and Moore, Bldrs., New York City, as Engr. and Constr. Supt., in responsible charge of construction of 17-story office building. July 1927 to date with Thompson-Starrett, Bldrs., New York City, laying out theatre building, being responsible for line and grade. TT 0.2: P 0.2. TT 2.2: SP 2: P 0.2. Refers to A. Haring, E. G. Hooper, C. T. Schwarze, C. H. Snow, D. S. Trowbridge.

1496

(2) FOGG, CHARLES HARLEY, 85 Everett St., Southbridge, Mass. (Age 22. Born Northfield, N. H.)' 1927 B. S. in C. E., Worcester Pol. Inst. Aug. 1927 to date with Eng. Dept., Town of Southbridge, Mass., on sewers, streets, surveys, etc., and at present Clerk of Works on construction of trade school. TT 2.1: SP 2: P 0.1. Refers to C. M. Allen, A. W. French, J. W. Howe, A. J. Knight.

1497

(13) FROGGATT, WILFRID ARMOUR, 781 Ashbury St., San Francisco, Cal. (Age 23. Born Cataract Dam, N. S. W., Australia.) 1927 B. S., Coll. of Civ. Eng., Univ. of Cal. TT 2: SP 2. Refers to R. E. Davis, B. A. Etcheverry, S. T. Harding, G. E. Troxell.

1408

(1) GIBSON, ERNEST SYDNEY, 122 East 34th St., New York City. (Age 23. Born Vancouver, B. C., Canada.) 1925 B. Sc., Univ. of British Columbia. TT 2: SP 2. April to Oct. 1923 and April to Oct. 1924 Topographer on topographical surveys, and April to Oct. 1925 Timber Cruiser, estimating, surveying, etc., with Forest Branch, Govt. of British Columbia. TT 0.5: SP 0.5. TT 2.5: SP 2.5. Refers to W. E. Duckering, E. G. Matheson.

(11) GIFFORD, LEROY DELAND, 1314 North Hobart Blvd., Hollywood, Cal. (Age 37. Born Edgeley, N. Dak.) 1911 B. S. in C. E., N. Dak. Agri. Coll. TT 2: SP 2. June to Dec. 1911 Rodman and Instrumentman on Highway location for Morton County, N. Dak. TT 0.5: SP 0.5. Jan. 1912 to Jan. 1914 with Knapp & Woodard, Civ. Engrs., Los Angeles. Cal., as Rodman, Instrumentman and Chf. of Party on surveys and construction on city subdivisions. TT 2: SP 2. Jan. 1914 to Jan. 1916 with City Engr.'s Dept., Manhattan Beach, Cal., as Chf. of Party on surveys (1914) and Asst. City Engr. making plans and estimates, writing ordinances, supervising surveys, etc. (1915). TT 2: SP 0.7: P 1.3: D 0.5. May 1916 to March 1917 with Los Angeles, Salt Lake R. R., until Sept. 1916 as Draftsman; then in field and office on maintenance and reconstruction. TT 0.8: SP 0.4: P 0.4. April 1917 to Nov. 1918 with California Highway Comm., as Recorder, Draftsman on surveys and Asst. Res. Engr. on concrete construction. TT 1.6: SP 1.6. March 1920 to Aug. 1924 with Eng. Service Corporation, Civ. and Cons. Engrs., Los Angeles, on city subdivision projects, until Dec. 1920 on computation and design, then Office Engr. in charge. TT 4.5: SP 0.4: P 4.1: RC 3.8: D 1. Aug. 1925 to Feb. 1927 with Eng. Dept., City of Los Angeles, checking and designing street improvements. TT 1.5: P 1.5: RC 1.1: D 1.1. Feb. 1927 to date Engr., Seaboard Eng. & Contr. Co., in charge of city subdivision and land development projects. TT 0.7: P 0.7: RC 0.7: D 0.7. TT 15.6: SP 7.5: P 8: RC 5.6: D 8.3. Refers to A. Jones. W. D. Jones, T. A. Jordan, C. J. Shults, N. Thom, Jr.

1500

(10) GORDON, ALEXANDER, P. O. Box 3713, West Palm Beach, Fla. (Age 37. Born New York City.) 1910 B. S. in Civ. Eng., and 1912 C. E., N. Y. Univ. TT 2: SP 2. April 1910 to July 1913 Corp. Inspector, Dept. of Public Works, New York City, sub-surface work. TT 3:2: SP 3.2. July 1913 to July 1914 Inspector of masonry, Public Service Comm., subway construction. TT 1: SP 1. July 1914 to July 1917 Asst. Engr., New York State Highway Dept., on design and construction. TT 3: P 3. July 1917 to Feb. 1918 Asst. Engr., New York State Engr.'s Office, Albany, design and estimates, canal work. TT 0.7: P 0.7. Feb. to Aug. 1918 Civ. Engr., U. S. Depot Quartermaster, in charge of railway and highway work, Governors Island, survey and construction. TT 0.6: P 0.6: RO 0.6. Aug. 1918 to Dec. 1920 with The Foundation Co., until Dec. 1918, at Tullytown, Pa., U. S. Bag Loading Plant.

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first as Housing Engr., later Purchasing Agt., then Purchasing Agt., Shipyard, New Orleans, La., in full charge of all purchases (approx. \$10 000 000), and after June 1920 Dist. Office Mgr., New Orleans. TT 2.5: P 2.5: RC 2. Dec. 1920 to May 1921 Office Mgr. and Purchasing Agt., Concrete Steel Bridge Co., Clarksburg, W. Va., reinforced concrete bridges. TT 0.4: P 0.4: RC 0.4. May 1921 to July 1922 not on engineering. July 1922 to Feb. 1924 Office Mgr. and Asst. Supt., The Foundation Co., on bank and hotel construction at West Palm Beach (approx. \$600 000). TT 1.6: P 1.6: RC 1.6. Feb. 1924 to Nov. 1925 with H. R. Corwin & Co., as Engr. and Estimator, also in charge of high-class residential construction at Palm Beach (one \$225 000, total approx. \$700 000). TT 1.7: P 1.7: RC 1.7. Nov. 1925 to Feb. 1927 in private practice maintaining Quantity Survey Bureau, projects included Lake Worth Inlet Dist. Imprevements, West Palm Beach. TT 1.4: P 1.4: RC 1.4. Feb. 1927 to date with A. I. V. Wilson as Office Mgr. and Estimator on completion of Lake Worth Inlet Dist. TT 0.7: P 0.7: RC 0.7. TT 18.8: SP 6.2: P 12.6: RC 8.4. Refers to H. W. DaCamara, Jr., A. Haring, L. C. Heilbronner, H. E. Smith, A. O. Taylor, S. B. Williamson, O. E. Young.

## 1501

(10) HALL, MAXCY REDDICK, 77 Thirteenth St., N. E., Atlanta, Ga. (Age 62. Born Weston, Ga.) 1886 to 1888 student, Flectric course, Univ. of Georgia. 1890 to date member of firm, Hall Bros., Civ. and Min. Engrs., Atlanta, Ga., on various engineering work; had charge of water supply, water power, mine, property, topographic and railroad surveys, drawings, estimates and reports, sampling and development work; also stream gauging work for U. S. Geological Survey, including establishing and making discharge measurements of large number of gauging stations and gauges; 1903 to 1910 Dist. Hydrographer (later Dist. Engr.), U. S. Geological Survey, at Atlanta, in charge of all stream gauging work in Southeastern States Dist., making and preparing for publication continuous daily records of stream flow at selected stations on principal rivers in the district, part of time on government stream gauging, largely water power investigation and reports; since 1917 Asst. Chf. of Constr., City of Atlanta, in charge of streets (1923 to Aug. 1927), since Aug. 1927 being Prin. Asst. in charge of sewers. TT 37.8: P 37.8: RC 29.3: D 29.3. Refers to B. S. Drane, J. J. Gaillard, J. M. Giles, N. C. Srover, B. M. Hall, B. M. Hall, Jr., W. E. Hall, W. A. Hansell, J. C. Hoyt, C. E. Kauffmann, C. A. Smith, F. C. Snow, C. M. Strahan.

#### 1502

(1) HALL, MELVILLE COOPER, 10 Frazer Pl., Cranford, N. J. (Age 38. Born Arvilla, N. Dak.) 1915 B. S., Coll. of Eng., Univ. of Wis. TT 2: SP 2. Sept. 1908 to Jan. 1910 Draftsman and Rodman with J. Leland FitzGerald, C. E., Schenectady, N. Y., on pavements, sewerage and water supply. TT 1.3: SP 1.3. Jan. to Sept. 1910 Draftsman, American Locomotive Co., Schenectady, locomotive drawing and detailing. TT 0.7; SP 0.7. Sept. 1910 to Jan. 1915 Student. Jan. to June 1915 Topographer in charge of party for Clinton B. Stewart, Hydr. Engr., Madison, Wis., on surveys and maps of two reservoir sites. TT 0.4: P 0.4: RC 0.4. June 1915 to Aug. 1917 Sales Engr., Johnson Service Co., Los Angeles, and Chicago writing specifications, supervising installation, etc., of temperature-control systems for heating and refrigeration plants. TT 2.2: SP 2.2. Aug. 1917 to Feb. 1919 with U. S. Army, at Fts. Sheridan and Monroe, and in France; commissioned First Lieut., Ordnance, 12th Aero Squadron, A. E. F., being Armament Officer, responsible for machine guns and ammunition. TT 1.5: SP 1: P 0.5: RC 0.5. Aug. 1919 to Aug. 1922 Draftsman, Watson Stillman Co., Roselle, N. J., in charge of drafting room (11/2 years), high pressure hydraulic machinery. TT 3: SP 1.5: P 1.5: RC 1.5. Aug. 1922 to date Engr., Standard Oil Co. (N. J.), Elizabeth, N. J., preparing estimates and sketches for oil refinery equipment and plant utilities, including pipe lines, water supply, dredging, sewerage, treating plants and buildings. TT 5.1: SP 1: P 4:1: RC 4.1. TT 16.2: SP 9.7: P 6.5: RC 6.5. Refers to C. H. Gaedcke, D. J. Haggerty, C. B. Stewart, J. Verner, H. L. West.

## 1503

(1) HANSCOMB, PAUL CLIFFORD, 12 North Fourteenth St., Flushing, N. Y. (Age 22. Born Springfield, Mass.) 1927 B. S., Sheffield Sci. School, Yale Univ. TT 2: SP 2. July to Sept. 1926 with New York, New Haven & Hartford R. R., as Chainman, Transitman, Draftsman and Chf. of Party. June 1927 to date Asst. Estimator, Edward Corning Co., New York City, on building construction. TT 0.3: P 0.3. TT 2.3: SP 2: P 0.3. Refers to C. T. Bishop, P. G. Laurson, J. C. Tracy.

## 1504

(4) HARTMAN, FRANK, Jr., 6356 Sherman St., Germantown, Philadelphia, Pa. (Age 24. Born Philadelphia, Pa.) 1926 B. S. in C. E., Univ. of Pa. TT 2: SP 2. July to Dec. 1926

Levelman, and Jan. 1927 to date Transitman, Eng. Dept., Reading Co., acting as Constr. Inspector. TT 1.2: SP 1.2. TT 3.2: SP 3.2. Refers to C. Dillenbeck, B. J. O'Rourke, W. Sebastian, F. P. Witmer.

#### 1505

(1) HIRSCHTHAL, MEYER, 262 West 107th St., New York City. (Age 47. Born Cracow, Poland.) 1899 B. Sc., City Coll. of New York. 1902 C. E., Columbia Univ. TT 2: SP 2. July 1902 to Feb. 1903 Constr. Supt. with Ransome & Smith Co. TT 0.6: SP 0.1: P 0.5: RC 0.5. March 1903 to March 1906 Estimator, Roebling Constr. Co., in charge of contracts and costs. TT 3: SP 1: P 2: RC 2. April 1906 to Sept. 1907 Draftsman, Henry Steers, Inc., estimating, drafting, designing piers, piersheds and foundations. TT 1.5: SP 0.5: P 1: RC 1. 1907 to date with Delaware, Lackawanna & Western R. R. until 1915 as Designing Draftsman, then Asst. Engr. and since 1920 Concrete Designer, assisted on design of Delaware River, Tunkhannock and Martin's Creek viaducts; designed all flat slab viaducts and bridges on the Lackawanna. TT 20: P 20: RC 12.5: D 7.5. TT 27.1: SP 3.6: P 23.5: RC 16: D 7.5. Refers to L. Bush, A. B. Cohen, C. Gilman, G. J. Ray, D. C. Serber, J. L. Vogel, L. White.

#### 1506

(Age 50. Born Randers. (13) HOFF, AXEL CONSTANTIN, 1502 Alice St., Oakland, Cal. Denmark.) 1902 Royal Mil. Eng. Acad., Copenhagen. Oct. 1897 to Oct. 1922 Lieut. and Capt., Royal Danish Engrs. Corps, being Chf. Engr. of Dept. for Military Barrack Bldg. (3½ years); Chf. of Staff (8% years), and Teacher of geology, strength of materials, building construction and descriptive geometry, Royal Mil. Eng. Acad., Copenhagen (11 years). Also Jan. 1902 to Jan. 1909 Teacher, Technical High School, Copenhagen; April 1906 to Oct. 1908 Chf. Designer for reinforced concrete works with Capt. T. Grut, Cons. Engr., Copenhagen; Oct. 1916 to Oct. 1917 with Secy. of Foreign Affairs, Denmark, Chf. Engrs. of Danish Govt.'s Committee for wounded war prisoners, designed and had charge of construction of two hospitals; Oct. 1908 to Oct. 1922 Cons. Engr., Denmark, on reinforced concrete. TT 25: SP 4.6: P 20.4: RC 18.9: D 5.3. Dec. 1922 to date Chf. Designer, Constant Angle Arch Dam Co., San Francisco, on dam construction and reinforced concrete works. TT 4.8: TT 29.8: SP 4.6: P 25.2: RC 18.7: D 10.1. Refers to W. G. P 4.8: RC 4.8: D 4.8. Corlett, E. H. Frisell, M. J. Hvorslev, J. Skytte, C. H. Snyder.

#### 1507

(9) HOWE, JOHN EDWARD, 63 Emmett St., Dayton, Ohio. (Age 21. Born Beverly, Mass.) 1927 B. Sc., Worcester Pol. Inst. TT 2: SP 2. July 1927 to date with Management Eng. & Development Co., Dayton, Ohio, drafting and tracing. TT 0.3: SP 0.3. TT 2.3: SP 2.3. Refers to C. M. Allen, A. W. French, J. W. Howe, E. A. Taylor, H. F. Taylor.

#### 1508

(7) JAKKULA, ARNE ARTHUR, Coll. of Eng., Univ. of Minnesota, Minneapolis, Minn. (Age 23. Born Hancock, Mich.) 1926 B. S., and 1927 M. S., in Civ. Eng., Univ. of Minn. TT 2: SP 2. Summers 1923-1925 and 1927 Laboratory Asst., Div. of Tests and Inspection, Minnesota Highway Dept., highway materials. TT 0.2: P 0.2. June to Sept. 1926 Student Engr., Div. of Control, U. S. Bureau of Public Roads. TT 0.2: P 0.2. Sept. 1926 to June 1927 and Sept. 1927 to date Research Fellow, Coll. of Eng., Univ. of Minnesota. TT 1: P 1. TT 3.4: SP 2: P 1.4. Refers to F. Bass, A. S. Cutler, J. O. Jones, O. M. Leland.

#### 1509

(13) JENSEN, ANDREW MARTIN, City Hall, Fresno, Cal. (Age 28. Born Fresno, Cal.) 1917 B. S. in Civ. Eng., Univ. of Cal. TT 2: SP 2. Jan. 1905 to June 1907 Rodman and Chainman and Jan. 1909 to April 1913 on field surveys and office work on water, sewer, irrigation, power and land survey projects with Chris P. Jensen, Cons. Civ. Engr., Fresno, TT 4.2: SP 3.2: P 1: RC 1. April 1913 to Aug. 1914 Deputy City Engr., Fresno, field and office work, street improvement assessments, etc. TT 1.4: SP 0.7: P 0.7: RC 0.7. Aug. 1914 to May 1917 student, Univ. of California. May 1917 to April 1925 in private practice, until Jan. 1919 as member of firm, Jensen, Jensen & Ross, then Jensen & Ross, Civ. Engrs., Fresno, Cal., and after Jan. 1923 alone; in charge of irrigation, reclamation, structural design of buildings, sewerage, sewage disposal and street paving; after Jan. 1919 also City Engr., Clovis and Fowler, Cal.; Cons. Engr. on sewage-disposal problems, Fresno; Engr. on several road district improvements in Fresno County, paving, subway under Santa Fe R. R., portion of Sierra-to-Seas highway west of Coalinga, Cal., expert witness on sanitary April 1925 to date Commr. of engineering, paving, etc. TT 7.9: P 7.9: RC 7.9: D 7.9. Public Works, Fresno in charge of streets, sewers, sewage disposal, building inspections, street lighting, fire alarm system, public buildings, automotive equipment, except that of Fire Dept., garbage collection and disposal, municipal airport, etc.; assisting on appraisal of privately

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owned water-supply. TT 2.5: P 2.5: RC 2.5: D 2.5. TT 18: SP 5.9: P 12.1: RC 12.1: D 10.4. Refers to M. W. Enderlein, C. G. Gillespie, C. G. Hyde, C. F. Johnson, C. L. Kaupke, D. H. Redinger, J. R. Shields, G. L. Swendsen.

#### 1510

(14) JERNIGAN, OTIS McCRORY, 403 Ringo St., Little Rock, Ark. (Age 20. Born McCrory, Ark.) 1927 B. C. E., Univ. of Ark. TT 2: SP 2. July 1927 to date Inspector, Ford & MacCrea, Engrs. for Town Branch Sewer Improvement Dist., Little Rock, Ark. TT 0.2: SP 0.2. TT 2.2: SP 2.2. Refers to W. E. Ford, D. A. MacCrea.

#### 1511

(11) JUDD, SAMUEL, 1055 Washington St., Denver; Colo. (Age 35. Born Denver, Colo.) 1915 B. S. in C. E., Univ. of Colo. TT 2: SP 2. June 1915 to date (total 1½ years) in private practice as Engr. and Inspector, prepared plans and specifications and supervised construction of buildings (\$600 000); also May to Sept. 1916 Structural Steel Detailer and Draftsman, F. O. Browne Iron Works, Denver, Colo.; Sept. 1916 to March 1917 Designer, Chicago, Burlington & Quincy R. R., Lincoln, Nebr., designing timber, structural steel and reinforced concrete bridges; March to Sept. 1917 Estimator, Union Pacific R. R., M. of W., Denver, Colo., preparing estimates for bridges, buildings and track work; Sept. 1917 to Jan. 1918 Designer and Detailer, Denver Steel & Iron Works, Denver, Colo.; Jan. 1918 to date with U. S. Bureau of Reclamation, Denver, until Jan. 1927 as Asst. Engr. and since then Assoc. Engr., preparing designs for gates, hoists, bridges and buildings (\$2 000 000); Chf. Inspector of materials. TT 12.4: SP 0.8: P 11.6: RC 4: D 7.8. TT 14.4: SP 2.8: P 11.6: RC 4: D 7.8. Refers to J. Hinds, I. E. Houk, W. H. Nalder, O. T. Reedy, J. L. Savage, R. F. Walter, F. E. Weymouth.

#### 1512

(1) KAPOUSTINE, THEODORE NICHOLAS, 602 West 135th St., New York City. (Age 44. Born Petrograd, Russia.) 1908 C. E., Tech. Inst. of Petrograd, Russia. TT 2: SP 2. 1908 to 1917 Mun. Engr., City of Petrograd, on work in connection with new water system, acting as Designer, Chf. Designer, Asst. to Chf. Engr., part of time making investigations in Germany, France and England. TT 9: P9: RC 2: D4. 1917 to 1919 in United States supervising work for Union of Municipalities of Russia, principally with American Locomotive Co.: studied water systems of United States, etc. TT 1.5: SP 1.5. 1919 to 1925 commercial engineering with W. R. Grace & Co. and Vargo Trading Co., New York City. 1925 to 1927 Designing Engr. with City of Miamil Beach, Fla., designed sewer system, dock (25-ft. draft), garage (100 cars) and repair shops, boardwalk, sea-wall, bridges, timber and concrete; concrete researches. TT 2.5: P 2.5: RC 3.5: D 2.5. TT 15: SP 3.5: P 11.5: RC 4.5: D 3.5. Refers to J. P. Deffy, V. T. Givotovsky, D. L. Hough, M. Pirnie, R. W. Reed.

# 1513

(8) KING, HARRY LINDLEY, Y. M. C. A., Springfield, Ill. (Age 21. Born Danville, Ill.) 1927 B. S. C. E., Purdue Tuly. To 2: SP 2. Sept. 1927 to date Jun. Highway Engr. (Bridge Dept.), Dept. of Public Works and Bldgs., State of Illinois. TT 0.2: P 0.2. TT 2.2: SP 2: P 0.2. Refers to W. K. Hatt, G. E. Lommel, R. B. Wiley.

# 1514

(6) KLINE, DANIEL CHRISTIE, American Bridge Co., Ambridge, Pa. (Age 23. Born Nyack, N. Y.) 1926 C. E., Corneli Univ. TT 2: SP 2. April to Sept. 1924 Jun. Asst. Engr., Grade 1, New York State Bureau of Highways, Hornel Div., being Instrumentman on survey (2 months), and Concrete Inspector on construction of concrete highways, mapping and earthwork computations (3 months). TT 0.4: SP.0.4. July 1926 to date Draftsman, Eng. Dept., American Bridge Co., Ambridge, Pa., being Structural Steel Detailer on steel and machinery for movable bridges, draw spans, rolling and vertical lifts, railroad turntables and bascules. TT 1.3: SP 1.3. TT 3.7: SP 3.7. Refers to F. A. Barnes, E. N. Burrows, C. deB. Christie, F. L. Dudley, R. G. Manning, G. F. Sparhawk.

#### 1515

(5) KREUTZER, GEORGE CHARLES, 1746 K St. N. W., Washington, D. C. (Age 43. Born Sedalla, Colo.) 1908 B. S., and 1922 M. S., Colo. Agri. Coll. TT 2: SP 2. June to Sept. 1908 Special Field Agt., Bureau of Irrigation Investigations, U. S. Dept. of Agriculture, measurement and duty of water, irrigation investigations. TT 0.3: SP 0.3. Oct. 1908 to to April 1910 Asst., Irrigation Investigations, Colorado Experiment Station, Ft. Collins, Colo., on stream measurements, evaporation and irrigation records; 3 months teaching irrigation engineering, Colorado Agricultural Coll. TT 1.5: SP 1.5. April 1910 to Jan. 1911 Asst. Supt. of Irrigation, Shoshone Project, Wyo., until Sept. 1910 in charge of operating Garland Unit (15 000 acres), then of survey parties, relocation and construction lateral A and Francia Canal. TT 0.7: SP 0.4: P 0.3. April 1911 to April 1913 Dist. Engr., in responsible charge Cohuna Irrigation Dist., Victoria, Australia,

design and reconstruction of irrigation system for 90 000 acres, including canals, laterals, bridges, etc. TT 2: P 2: RC 2: D 2. April 1913 to April 1914 Executive Engr., in of agricultural engineering, State Rivers and Water Supply Comm., Victoria, laying out farms for irrigation, leveling large tracts, constructing ditches, etc. TT 1: P 1: RC 1: D 0.2. April 1914 to April 1916 Executive Engr., in charge of Rochester Irrigation Dist. (129 000 acres), Victoria; operating project, design and construction, Echuca Extension and Cornelia Creek Extension (8 000 and 12 000 acres) and replacing structures on Compaspe Dist. TT 2: P 2: RC 2: D 0.7. July 1916 to March 1918 Extension Specialist, Univ. of California, in charge of extension work in Kern Co. and supervised similar work in Tulare, Kings and Fresno Counties, giving special attenton to co-operative marketing and war production; irrigation and drainage problems. TT 1.8: SP 1.8. March 1918 to July 1924 Engr. and Supt. in charge of Durham State Land Settlement, Cal., constructing irrigation and drainage system, leveling and preparing land for irrigation, including ditches and structures and design and construction of cold storage plant. TT 6.3: P 6.3: RC 6.3: D 1.5. July 1924 to date Director of Reclamation Economics, U. S. Bureau of Reclamation, in charge of economic investigations, improvement of economic and social conditions, land classification and subdivision, etc. TT 3.3: P 3.3: RC 3.3. TT 20.9: SP 6: P 14.9: RC 14.6: D 4.4. Refers to S. Fortier, B. E. Hayden, J. L. Lytel, E. Mead, F. C. Scobey, R. F. Walter, W. W. Weir, A. Weiss.

#### 1516

(1) LIST, ALBERT, 162 Central Ave., Hasbrouck Heights, N. J. (Age 23. Born Passaic, N. J.) 1926 C. E., Coll. of Applied Sci., Syracuse Univ. TT 2: SP 2. June 1926 to date Asst. Civ. Engr., Board of Commerce and Navigation, State of New Jersey, office and field work, hydrographic and topographic surveys. TT 1.2: SP 0.2: P 1: RC 1. TT 3.2: SP 2.2: P 1: RC 1. Refers to V. Gelineau, L. Mitchell.

#### 1517

(14) LONG, JOHN ROBERT, 3433 Park Ave., Kansas City, Mo. (Age 21. Born Kansas City, Mo.) 1927 B. S., Univ. of Ill. TT 2: SP 2. June 1927 to date Draftsman and Detailer with Harrington, Howard & Ash, Cons. Engrs., Kansas City, Mo. TT 0.2: SP 0.2. TT 2.2: SP 2.2. Refers to L. R. Ash, H. E. Babbitt, H. Cross, J. J. Doland, J. L. Harrington, E. E. Howard, W. C. Huntington.

## 1518

(1) LYONS, EMANUEL, Jr., P. O. Box 847, Panama, Panama. (Age 23. Born Panama, Panama.) 1927 B. S. in C. E., Catholic Univ. of America. TT 2: SP 2. Refers to J. W. Oehmann, A. J. Scullen.

## 1519

(1) MACKENZIE, DONALD ALEXANDER, 91 Cambridge Ave., Stewart Manor, Garden City, N. Y. (Age 31. Born Blauvelt, N. Y.) 1917 C. E., Cornell Univ. TT 2: SP 2. Summer 1916 Highway Inspector for W. H. Bowne, Glen Cove, and Nassau County, N. Y. 1917 to 1919 with U. S. Navy. April 1919 to Jan. 1921 Draftsman, Computer and Instrumentman, Aluminum Co. of America, Niagara Falls, N. Y. and Maryville, Tenn., on plant maintenance, surveys and townsite development. TT 1.7: SP 1: P 0.7: RC 0.3. Feb. 1921 to April 1923 Jun. and Asst. Engr., Illinois State Highway Dept., Springfield, Ill., on designs and drawings of steel and reinforced concrete bridges. TT 2.1: SP 0.5: P 1.6: RC 0.5: D 1.6. April to July 1923 Structural Steel Draftsman and Detailer, Hay Foundry & Iron Works, Newark, N. J., on office and apartment buildings. TT 0.3: SP 0.3. Aug. 1923 to May 1924 Jun. and Asst. Engr. with U. S. Engr. Office and Hugh L. Cooper & Co., in field office and on construction of Wilson Dam and power house, Florence, Ala. TT 0.8: P 0.8: RC 0.5: D 0.3. May 1924 to March 1925 Designing Draftsman, Stone & Webster Eng. Corp., Boston, Mass., on four hydro-electric projects. TT 0.8: P 0.8: D 0.4. March 1925 to Jan. 1926 Structural Designer, Dwight P. Robinson & Co., New York City, on industrial buildings, railroad shops and steam power plant, also in Purchasing Dept. TT 0.9: P 0.9: RC 0.4: D 0.5. Jan. 1926 to Sept. 1927 Designing and Estimating Engr., Warsaw, Poland, Office of Ulen & Co., New York City, on water-works and sewerage systems, public buildings, etc., for a number of Polish cities. TT 1.8: P 1.8: RC 1.8: D 1.2. TT 10.4: SP 3.8: P 6.6: RC 3.5: D 4. Refers to G. F. Burch, T. Dickinson, E. D. Dryfoose, C. N. Phillips, G. Schobinger. THE MENOHER, SADE LAMONTE 1520

(1) MacKinnon, William Gilbert, 600 Academy St., New York City. (Age 22. Born Port Huron, Mich.) 1926 B. S., and 1927 C. E., Coll. of City of N. Y. TT 2: SP 2. June-Aug. 1926 and June to July 1927 Surveyman, U. S. Engr. Dept., First and Second Dists. of New York. TT 0.3: SP 0.3. TT 2.3: SP 2.3. Refers to R. E. Goodwin, F. O. X. McLoughlin.

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(1) McDONALD, IAN DOUGLAS, Town Hall, Geelong, West Victoria, Australia. Born Horsham, Victoria, Australia.) Certified Local Govt. Engr., New South Wales, and Municipal Surveyor, Victoria. 1916 C. E., Gordon Inst. Tech., Geelong, Victoria, Australia. Sept. 1919 to Dec. 1925 with Municipality of Albury, 3 years as Draftsman, then Asst. Municipal Engr. TT 6.2: SP 3: P 3.2: RC 2: D 1.2. Jan. 1925 to April 1927 Engr. to Shire of Marong, Bendigo, Victoria. TT 1.2: P 1.2: RC 1.2: D 1.2. May 1927 to date Municipal Engr. and Bidg. Surveyor, Town of Geelong. TT 0.3: P 0.3: RC 0.3: D 0.3. TT 7.8: RC 3.5: D 2.8. (Applies in accordance with Sec. 1, Art. I, of the By-Laws.) TT 7.8: SP 3: P 4.8:

(5) McGINNIS, CHARLES ARTHUR, 510 Hollen Road, Baltimore, Md. (Age 31. Born Baltimore, Md.) Graduated from Baltimore Pol. Inst. and The Maryland Inst. 1914 to 1919 with Deitrich Bros., Baltimore, Md., on detail and design of structural steel. TT 5: SP 3: P 2. 1919 to 1921 with J. Charles Heller, Baltimore, on detail and design of structural steel and reinforced concrete. TT 2: P 2. 1921 to 1922 with Patapsco Iron Works, Baltimore, on detail and design of structural steel. TT 1: P 1: RC 1. 1922 to 1926 Chf. Engr., Philipp-Kell Co., Inc., Baltimore, in charge of drafting, design and estimating. TT 4: P 4: RC 4: D 4. 1926 to 1927 in private practice on design of structural steel for theatre (cantilever balcony), heavy warehouse, steel mill buildings. TT 1: P 1: RC 1: D 1. 1927 to date with W. S. Austin, Baltimore, Md., design and superintendence of buildings for industrial TT 0.3: P 0.3: RC 0.3: D 0.3. TT 13.3: SP 3: P 10.3: RC 6.3: D 5.3. Refers to C. R. Burdette, S. B. Downey, F. W. Kassebaum, Jr., J. M. Russell, C. A. Weiller.

## 1523

(10) MALCOM, VINCENT VALENTINE, 1112 Shelton Ave., Nashville, Tenn. (Age 27. Born Anthon, Iowa.) 1921 B. S. in Civ. Eng., Iowa State Coll. of Agri. and Mech. Arts. TT 2: SP 2. June 1921 to Sept. 1922 Farmer. Sept. 1922 to July 1923 Supt. of Schools, Town of Baltic, S. Dak. TT 0.8: SP 0.8. July 1923 to Sept. 1926 with Illinois Highway Dept., until Jan. 1924 as Jun. Testing Engr. on inspection, then Research Engr., and after Aug. 1925 Asst. Engr. of Materials on publicity work and research. TT 3.3: P 3.3: RC 2.8. Sept. 1926 to date Research Engr., Tennessee Highway Dept. TT 1.1; P 1.1; RC 1.1. TT 7.2: SP 2.8: P 4.4: RC 3.9. Refers to R. H. Baker, C. N. Bass, H. F. Clemmer, C. V. R. Fullenwider, D. D. McGuire, C. H. Olmstead, A. E. Stoddard.

# 1524

(1) MATTE, RAYMOND, Care, Y. M. C. A., 109 West Fifty-Fourth St., New York City. (Age 24. Born Montreal, Que., Canada.) B. S., and 1927 C. E. Univ. of Montreal. TT 2: SP 2. Summer 1923 on topography, Quebec Stream Comm. Summers 1924 and 1925 Draftsman, Ottawa Power Development, Bryson, Canada, and Maniwaki Power Development, June to Oct. 1926 and May to Sept. 1927 Inspector, St. Joseph Oratory, Montreal, also (1926) Designer, Lake St. John (Que.) Light and Power Co., all for E. Loignon, Cons. Engr., Montreal. TT 0.4: P 0.4. TT 2.4: SP 2: P 0.4. Refers to O. O. Lefebvre, A. Surveyer.

A.D Dilet M.A. Shark Mid. Tel. WY 1525 meabouth extensive from experime arminelation (12) MELTON, EDWARD ROANE, 604 Ninth St., N. E., Washington, D. C. (Age 26. Born Richmond, Va.) 1925 B. S. in Civ. Eng., Univ. of Md. TT 2: SP 2. July 1919 to Oct. 1920 and July 1921 to Oct. 1922 Aid, U. S. Bureau of Standards, assisted in electrical and mechanical engineering. TT 2.5; SP 2.5. May 1925 to Jan. 1926 Jun. Engr., Marland Refining Co., being Asst. Chf. of field party in exploration for oil. TT 0.6: P 0.6. Jan. to Oct. 1926 Designing Engr., American Instrument Co. TT 0.7: P 0.7. Oct. 1926 to date Jun. Engr., U. S. Bureau of Standards, design and testing of areonautical instruments and equipment. TT 1: P 1. TT 6.8: SP 4.5: P 2.3. Refers to A. N. Johnson, S. S. Steinberg. a nonridad

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(3) MENDES, FRANK HAROLD, 10954 117th Street, Ozone Park, N. Y. (Age 23. Born Port of Spain, Trinidad, B. W. I.) 1927 B. S., Tufts Coll. TT 2: SP 2. Refers to F. N. Weaver, E. H. Wright.

(14) MENOHER, WADE LAMONTE, 1634 South Twenty-First St., Kansas City, Kans. (Age 22. Born Gravity, Iowa.) 1926 B. S. in C. E., Univ. of Colo. TT 2: SP 2. to date draftsman, Kansas City Structural Steel Co., on detailing. TT 1.3: SP 1.3. SP 3.3. Refers to F. R. Dungan, C. L. Eckel, H. J. Gilkey, R. B. Houston, W. C. Huntington, J. B. Marcellus, J. M. Waller.

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(2) NELSON, WALTER NICHOLAS, 59 Raymond St., New London, Conn. (Age 30. Born Noank, Conn.) 1925 B. S., Rhode Island State Coll. TT 2: SP 2. 1914 to 1916 Rodman, Chainman and Instrumentman, Daboll & Crandall, City Engrs., New London, Conn. TT 2: SP 2. Jan. 1916 to Feb. 1918 with New York, New Haven & Hartford R. R., until Sept. 1917 as Rodman, Levelman, Transitman and Inspector, then Chf. of Party and Draftsman. TT 2.1: SP 1.3: P 0.8. July 1919 to Feb. 1920 with Ellison Constr. Co., as Foreman on concrete foundation construction. TT 0.6: P 0.6. Feb. 1920 to Sept. 1921 Draftsman, Transitman and Inspector, U. S. Engrs. TT 1.7: SP 0.7: P 1. Sept. 1921 to June 1924 student, Univ. of Illinois. June 1925 to Feb. 1926 Student Engr., The Connecticut Power Co., New London, Conn. TT 0.6: SP 0.6. Feb. to Sept. 1926 Field Engr., Stone & Webster, Inc. TT 0.6: P 0.6: RC 0.6. Sept. 1926 to April 1927 Field Engr., Lago Petroleum Corp., Maracaibo, Venezuela. TT 0.6: P 0.6: RC 0.6. May 1927 to date Office Engr., Stone & Webster, Inc., Greenwich, Conn. TT 0.2: P 0.2: RC 0.2. TT 10.4: SP 6.6: P 3.8: RC 1.4. Refers to E. W. Crawley, H. T. Larsen, W. H. Law, W. H. Rayner, P. B. Spencer, J. R. Stubbins. OA DIN-YMDIT FEED SEL CARL, 123 COST TIDMY-MICH AND

(1) NICOL, THOMAS BRUCE, 341 Pitt St., Sydney, N. S. W., Australia. (Age 31. Born Lismore, N. S. W., Australia.) 1921 B. E. (Civ.), Sydney Univ. TT 2: SP 2. Dec. 1915 to May 1919 with 1st Field Co., Engrs., Australian Imperial Force, in Egypt and France, and (5 months) Corporal in charge of drawing office at Engrs. Training Depot, Brightlingsea, England. TT 3.4: SP 3: P 0.4. Sept. 1919 to Feb. 1920 Asst. to Engr., surveying, leveling and testing cement, and April to May 1921 Draftsman, Sydney Harbor Trust. TT 0.6: SP 0.3: P 0.3. May 1921 to date with Metropolitan Water, Sewerage and Drainage Board, Sydney, until July 1925 as Senior Draftsman, designing, detailing, estimating and preparing contracts for concrete reservoirs, septic tanks, filter beds, concrete bridges, centrifugal pumps and pressure tunnel investigation, and since Aug. 1925 Chf. Draftsman, in charge of drawing office, supervising plans. TT 6.5: P 6.5: RC 2.3: D 6.5. TT 12.5: SP 5.3: P 7.2: RC 2.3: D 6.5. Refers to F. F. Fergusson, W. A. Miller. (Applies in accordance with Sec. 1, Art. I, of the By-Laws.)

(2) RASMUSSIN LAURITZ HERMAN, 2001 (10) NOBLE, ALVORD DeWITT, Care, Tallassee Power Co, Southmont, N. C. (Age 25. Born Seattle, Wash.) 4 years student, Univ. of Washington. TT 1.3: SP 1.3. June to Sept. 1921 Chainman, Rodman, Asst. Draftsman, etc., and July 1923 to June 1924 drafting, tracing, and general office work on Skagit River Development, for City of Seattle. TT 0.9: SP 0.9. July to Sept. 1922 Level Rodman on transmission line survey, and June to Sept. 1925 Field Draftsman on transmission line construction, with Stone & Webster. June to Sept. 1926. Chf. Draftsman, King County Title Co., in charge of drafting work, making maps of King County. TT 0.3: P 0.3. Sept. 1926 to date Concrete Inspector, Tallassee Power Co., on railroad relocation, designed and inspected bridge masonry and has charge of cost estimates on proposed railroad work. TT 1: SP 1. TT 3.5: SP 3.2: P 0.3. Refers to I. L. Collier, J. B. Hamilton, G. W. Harris, C. C. May, C. C. More, W. D. Shannon.

# 1531

(7) PARVIS, MERLE, 1224 Fifth Ave., Antigo, Wis. (Age 23. Born Clarks Hill, Ind.) 1927 B. S. C. E., Purdue Univ. TT 2: SP 2. April to Sept. of years 1922 and 1923 Carpenter for Leslie Colvin, Gen. Contr., Anderson, Ind. Summers 1924-1926 Carpenter, Instrumentman, Foreman, etc., for A. E. Kemmer, Gen. Contr., Lafayette, Ind. July 1927 design and drafting on highway bridge for Prof. E. L. Ericksen, and Carpenter Foreman and Instrumentman for A. E. Kemmer, Gen. Contr., Lafayette. July 1927 to date Instrumentman. Chicago & North Western Ry., Antigo, Wis. TT 0.3: SP 0.3. TT 2.3: SP 2.3. Refers to C. B. Benson, E. L. Eriksen, C. A. Hart, W. K. Hatt, W. A. Knapp, G. E. Lommel, A. P. Poorman, R. B. Wiley.

1532

(2) PAULSEN, THORWALD SINDRE, 107 Louis Pasteur Ave., Boston, Mass. (Age 27. Born St. Paul, Minn.) 1922 B. S. in Civ. Eng., Univ. of Minn. TT 2: SP 2. May 1922 to April 1924 Field Engr. on building construction, Foley Bros. Constr. Co., New York City. TT 1.9: P 1.9: RC 1. April to Sept. 1924 Inspector on structural steel, Transcontinental Eng. Co., Chicago, Ill. TT 0.4: P 0.4: RC 0.4. Sept. 1924 to Sept. 1925 Jun. Civ. Engr., Corps of Engrs., U. S. Army, Wilson Dam, Ala. TT 1: P 1: D 1. Sept. 1925 to July 1926 Chf. Draftsman, Huff & Roberts, Cons. Engrs., Miami, Fla. TT 0.8: P 0.8: RC 0.8: D 0.8. July 1927 to date Supt. on building construction, Clerk of Works Office, Harvard Univ., Cambridge, Mass. TT 1.3: P 1.3: RC 1.3. TT 7.4: SP 2: P 5.4: RC 3.5: D 1.8. Refers to F. Bass, B. S. Brown, V. E. Huff, E. A. Tucker, J. F. Wilber.

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(12) PAULSON, JOSEPH BERNARD, Jr., Box B, Leavenworth, Wash. (Age 21. Born St. Paul, Minn.) 1927 B. S. in C. E., Univ. of Minn. TT 2: SP 2. June 1927 to date Rodman, Great Northern Ry. Co. TT 0.3: SP 0.3. TT 2.3: SP 2.3. Refers to F. Bass, A. S. Cutler.

## 1534

(4) PERRY, LEO KENNETH, 1023 South Eighth St., Allentown, Pa. (Age 25. Born West Palm Beach, Fla.) 1923 B. S. in C. E., Ga. School Tech. TT 2: SP 2. Sept. 1923 to Aug. 1924 Rodman and Draftsman, Development Dept., Feb. to Nov. 1925 Field Draftsman, Land Dept., and Feb. 1926 to April 1927 Chf. of Party on transmission line location, all for Georgia Ry, and Power Co. TT 3: SP 1.3: P 1.2: RC 1.2. Aug. 1924 to Feb. 1925 Draftsman on topographic survey and Nov. 1925 to Feb. 1926 Transitman on railroad location, Washington Land Co. TT 0.7: SP 0.7. April 1927 to date Draftsman, Constr. Dept., Atlas Portland Cement Co. TT 0.4: P 0.4: D 0.4. TT 6.1: SP 4.5: P 1.6: RC 1.2: D 0.4. Refers to F. C. Snow, E. Somers.

#### 1535

(14) PETERSON, THEODORE CARL, 128 South Thirty-fifth Ave., Omaha, Nebr. (Age 45. Born Orleans, Nebr.) 1911 B. S., Grinnell Coll. 1914 B. S. C. E., Univ. of Nebr. TT 2: SP 2. April 1914 to date with U. S. Bureau of Public Roads, as follows: April 1914 to April 1915 Civ. Engr. Student on routine tests in Roads Materials Laboratory, Washington, D. C., Chf. of Survey Parties, and (½ year) on design of road plans, Yosemite, Cal.; May 1915 to April 1918 Jun. Highway Engr., and on survey design and construction of roads in various places, part of time in charge, also Chf. of Survey Party, etc.; since May 1918 Highway Engr., construction inspection, etc., on Klamath River road, Cal., 1½ years in charge of drafting room, design of road plans, San Francisco, and since May 1920 in field and office on review of plans, specifications and estimates, field construction inspection of concrete and gravel roads, office administration. TT 13.4: SP 1: P 12.4: RC 10.4: D 3. TT 15.4: SP 3: P 12.4: RC 10.4: D 3. Refers to T. W. Allen, G. L. Campen, C. H. Kendall, J. S. Morrison, J. I. Quinn, C. H. Sweetser.

#### 1536

(2) RASMUSSEN, LAURITZ HERMAN, 273 Eliott St., Milton, Mass. (Age 23. Born Boston, Mass.) 1927 B. S., Mass. Inst. Tech. One summer Transitman, Massachusetts Highway Comm., on surveys of highways, gravel pits, etc. One summer Transitman, American Steel Wire Co., Worcester, Mass., setting foundations and machinery for rolling mill and other machinery. TT 2: SP 2. Refers to J. B. Babcock, 3d, H. K. Barrows, C. M. Spofford.

## 1537

(9) RATH, EDWIN ROSCOE, 645 Glenway Ave., Wyoming, Ohio. (Age 32. Born Pleasanton, Nebr.) 1917 B. S. in E. E., and 1921 E. E., Univ. of Pittsburgh. TT 2: SP 2. June to Dec. 1917 Cadet Engr., Henry L. Doherty & Co., Denver, Colo., apprenticeship in operation and management of public utilities. TT 0.5: SP 0.5. Dec. 1917 to March 1918 Elec. Engr., Pittsburgh Metallurgical Co., Coraopolis, Pa., installation and operation of electric furnaces for manufacture of Ferro Alloys. TT 0.3: P 0.3: RC 0.3. March to Dec. 1918 with Signal Corps, U. S. Army, College Park, Md., investigation and development work on wireless telephone and telegraph. TT 0.7: SP 0.7. Dec. 1918 to June 1921 Instructor, June 1921 to June 1925 Asst. Prof., and June 1925 to June 1926 Assoc. Prof., of Elec. Eng., Univ. of Pittsburgh, about 4 years in complete charge of electrical engineering laboratories and all electrical equipment at Univ. TT 6.5: SP 1.5: P 5: RC 5. June 1926 to date Mgr., Rys. Dept., Elastite Div., The Philip Carey Co., Lockland, Cincinnati, Ohio, in charge of design, promotion, sale and installation of Elastite products; also on experimental and test work for manufacturing firms and public utilities in Pittsburgh District. TT 1.2: P 1.2: RC 1.2. TT 11.3: SP 4.7: P 6.6: RC 6.6. Refers to G. W. Case. C. V. R. Fullenwider, J. S. Lambie, L. C. McCandliss, L. W. McIntyre, J. H. Smith.

## 1538

(7) REYNOLDS, THOMAS MYRICK, 1418 Madison St., LaCrosse, Wis. (Age 39. Born Manistee, Mich.) 1912 B. S. in C. E., Univ. of Wis. TT 2: SP 2. July to Sept. 1906 Chainman, and Aug. 1908 to Feb. 1909 Instrumentman, Milwaukee Elec. Ry. & Light Co. TT 0.7: SP 0.7. June to Sept. 1910 Instrumentman, Chicago, Milwaukee & St. Paul R. R. Co. Feb. to April 1912 Checker, R. R. Comm. of Wisconsin, Madison, Wis. TT 0.2: SP 0.2. April 1912 to date with Wisconsin Highway Comm., at Madison, and (after Jan. 1915) LaCrosse, Wis., engaged as follows: April 1912—Dec. 1914 Instrumentman in charge of field party on road and bridge surveys, also in office completing road plans; 1915 and 1916 Chf. of Party in charge of location of highways in southwestern Wisconsin; 1917 Asst. Div. Engr., responsible for plans and construction of highways; some administrative work, including

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some state trunk highway location; 1918 and 1919 Div. Maintenance Engr., in charge of maintenance of state trunk highway system in Div. No. 5, etc.; since Jan. 1920 Div. Engr., has had direct charge and full responsibility for location, design, construction, maintenance in Div. No. 5 (average \$1 700 000 annually). TT 15.5; SP 2: P 13.5: RC 7.5: D 5. TT 18.4: SP 4.9: P 13.5: RC 7.5: D 5. Refers to N. M. Isabella, H. J. Kuelling, F. F. Mengel, O. C. Rollman, H. Y. Smith, F. E. Turneaure, C. R. Weymouth.

1539

(2) ROONEY, JAMES IGNATIUS, 1637 Commonwealth Ave, Brighton, Mass. (Age 30. Born Brookline, Mass.) 1918 A. B., Boston Coll. 1923 B. S., and 1924 M. S., Mass. Inst. Tech. TT 2: SP 2. July 1923 to Jan. 1925 Asst. Engr, North Jersey Dist. Water Supply Comm., Newark, N. J., design, layout, etc. TT 1.5: SP 0.5: P 1: D 1. Jan. 1925 to date Designer and Checker, Stone & Webster Co., Boston, Mass., on hydro-electric, power plant and industrial building work. TT 2.8: P 2.8: RC 1.5: D 1. TT 6.3: SP 2.5: P 3.8: RC 1.5: D 2. Refers to J. B. Babcock, 3d, H. K. Barrows, H. L. Bowman. S. C. Jemian, G. R. Rich, C. M. Spofford.

1540

(12) ROSS, FRANK ARTHUR, Camp 5, Cochran, Ore., Graduating student awarded Portland, Ore., Section Prize. (Age 30. Born DuBois, Pa.) 1927 B. S. in Civ. Eng., Ore. Agri. Coll. TT 2: SP 2. July 1923 to Sept. 1924 Engr., Wheeler (Ore.) Lumber Co., running property lines and locating logging railroad. TT 1.2: P 1.2: RC 1.2. June to July 1925 Compassman, Brighton Mills Co., Brighton, running compass for timber cruiser. TT 0.1: SP 0.1. Aug. 1925 to Dec. 1926 Instrumentman, and Jan. 1927 to date (except Jan.-March, student) Engr., for C. H. Wheeler, Portland, locating logging railroads. TT 2.1: SP 1.4: P 0.7: RC 0.7. TT 5.4: SP 3.5: P 1.9: RC 1.9. Refers to F. F. Henshaw, G. C. Mason, B. S. Morrow, S. Sims, O. E. Stanley.

1541

(9) ROUSCULP, JOHN ALLEN, 2546 Adams Ave., Columbus, Ohio. (Age 27. Born Lima, Ohio.) 1924 B. C. E., Ohio State Univ. TT 2. SP 2. Feb. to June 1920 Draftsman, Buckeye Pipe Line Co., Lima, Ohio, tracing maps. TT 0.3: SP 0.3. June 1922 to June 1924 (summers and while student) Map Draftsman and Field Checket, Ohio Fuel Gas Co., Columbus, traced, detailed and checked maps. June 1924 to date with Div. of Eng., City of Columbus, until Nov. 1924 as Draftsman, tracing bridge plans, drafting and designing storm, sanitary and combined sewers, then Asst. Engr. on design of similar sewers, and since Sept. 1927 Senior Asst. Engr., in charge of office work in connection with design and preparation of sewer plans. TT 3.4: SP 0.5: P 2.9: RC 0.1: D 2.8. TT 5.7: SP 2.5: P 2.9: RC 0.1: D 2.8. Refers to O. Bonney, F. H. Eno, J. H Gregory, C. T. Morris, J. R. Shank, C. E. Sherman, R. H. Simpson.

1542

(1) RYAN, JOSEPH DAIRIAN, Leith Castle, San Thome, Madras, South India. (Age 43. Born Karikal, French India.) 1905-1906 student, Coll. of Eng., Madras, India. 1908 Head Draftsman, Public Works Dept., work shops, Govt. of Burma, Rangoon and Independent Lighthouse Subdivision, designed and estimated Green Island Lighthouse, etc. TT 0.7: P 0.7: RC 0.7: D 0.7. 1909 to 1911 Draftsman, Overseer, Surveyor and Plate Layer in Burma Railways (special work), drew Rangoon station building, Myituge carriage shops, etc. TT 3: P 3: RC 3: D 3. 1912 Town Land Surveyor, Rangoon Municipality, survey of Kokine Lake and Kamakasit Jungles, court cases, etc. TT 1: P 1: RC 1: D 1. 1913 Archt.'s Asst., Stevens, Gregson & Co., Rangoon, estimated measurements, plumbing, sanitary work, etc., of Bombay Burma Trading Corporation, office premises. TT 1: P 1: RC 1: D 1. 1914-1916 Inspector, Bridge Inspector and Surveyor in charge, East Indian Ry., design of reinforced concrete sleeper and 100 miles of Jubilee bridge sand blasting. TT 3: P 3: RC 3: D 3. 1917 San. Engr., Marsland Price, Ltd., San. Eng. Specialists, Bombay, sanitary fittings, designs of flush arts, etc. TT 0.5: P 0.5: D 0.5. 1918 Asst. Reinforced Concrete Engr., Mckenzie Saw Mills, Ltd., Bombay (Trussed Concrete Steel Co., America), calculations and designs of St. Joseph's Home and Victoria Technical Inst. TT 0.5: P 0.5: RC 0.5: D 0.5. 1919 Executive Engr. (over 5 subdivisions), Military Dept., Wazierskan Field Force, Northwest Frontier India, constructed a boat bridge over the Indus River in floods. TT 0.6: P 0.6: RC 0.6: D 0.6. 1920 to 1921 Engr. Mgr., Indo European Eng. Co., Delhi (India), construction of buildings for East Indian Ry., construction and design of a church, etc. TT 2: P 2: RC 2: D 2. 1922 to 1925 Professor and Principal of Chengahayas Technical and Industrial Eng. Inst., Madras, installation of electric laboratory, etc. TT 3.5: P 3.5: RC 3.5: D 3.5. 1926 to date Inspector of work and Asst. Engr. in charge of 10 miles of railway in South India, final location and land acquisition (60 miles). TT 1.5: P 1.5: TT 17.3: P 17.3: RC 16.8: D 17.3. (Applies in accordance with Sec. 1, RC 1.5: D 1.5. Art. I, of the By-Laws.)

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(1) SCHMIDT, ROBERT ALAN, 1576 East Forty-Fifth St., Brooklyn, N. Y. (Age 22. Born New York City.) 1926 B. S., and 1927 C. E., Coll. of City of N. Y. TT 2: SP 2. Refers to R. E. Goodwin, F. O. X. McLoughlin.

#### 1544

(4) SCHOFER, AUGUST, Y. M. C. A., Reading, Pa. (Age 25. Born Baltimore, Md.) 1926 B. E., Johns Hopkins Univ. TT 2: SP 2. June to Oct. of years 1924 and 1925 Jun. Engr. (Eng. Aid), City of Baltimore, Md., Bureau of Plans and Surveys. July to Oct. 1926 Utilities Inspector, Public Service Comm., Baltimore, Mapping, preparing sections of maps, inspecting street cars, gas tests, meter complaints. TT 0.2: SP 0.2. Oct. 1926 to April 1927 Jun. Highway Engr., Grade 1, New York State Highways at Babylon, N. Y., tracing plans, preparing estimates, helping on road design. TT 0.5: SP 0.5. May 1927 to date Jun. Highway Engr., Bureau of Public Roads, on stop watch, sand pit and quarry organization and operation, studies, etc. TT 0.5: SP 0.5. TT 3.2: SP 3.2. Refers to T. W. Allen, J. H. Gregory, J. T. Thompson.

#### 1545

(1) SILITCH, EUGENE WLADIMIR, 120 Broadway, New York City. (Age 26. Born Petrograd, Russia.) 1927 A. B. in Civ. Eng., Standford Univ. TT 2: SP 2. June-Oct. 1923 with Southern Pacific Co., first 5 months as Transitman, Inspector and Leveler, and May-July 1924 Transitman in charge of residency, Yula Pass to Cisco, Cal., double tracking, including charge of two short tunnels and relocation of line. TT 0.7: SP 0.4: P 0.3. Aug. 1924-Jan. 1925 Instrumentman, Erie R. R. Co. TT 0.5: SP 0.5. Feb. 1925 to Oct. 1927 with Ulen & Co., until Nov. 1925 as Engr. in Poland, on design of sewers and water-works for towns of Lublin, Radom and Petrokow, Poland, then Field Engr. in Athens, Greece, later Asst. Designing Engr., design of dam details, cut and cover work, small dock, etc., and after Nov. 1926 Prin. Asst. Engr. in charge of Dept., Bocas de Ceniza, Barranquilla, Colombia, on jetty and river work, including rock exploration, railroads, soundings, etc.; since March 1927 also Levelman and Draftsman, Kozloff-Prochlandnaiya R. R., Russian Govt. R. Rs. TT 2.8: P 2.8: RC 1.9: D 0.7. TT 5.9: SP 2.9: P 3: RC 1.9: D 0.7. Refers to H. W. Boetzkes, V. M. Crown, A. A. Dedouloff, R. W. Gausmann, R. H. Keays, R. Nebolsine, L. B. Reynolds.

#### 1546

(1) SPENGLER, DONALD FERDINAND, 310 Convent Ave., New York City. (Age 21. Born Port Clinton, Ohio.) Feb. 1925 to date student, N. Y. Univ. Night School of Eng., Oct. 1925 to April 1926 Rodman, New York Title & Mortgage Co., New York City, on surveys. TT 0.5: SP 0.5. April 1926 to date Eng. Asst., Board of Transportation, Track Div., New York City, on railroad line, grade, curves, earthwork, computations, estimates and drafting. TT 1.5: SP 1.5. TT 2: SP 2. Refers to W. W. Brush, A. J. Daino, E. G. Hooper, R. H. Jacobs, R. Ridgway, C. T. Schwarze, C. H. Snow, A. S. Tuttle.

## 1547

(1) SPOWART, ROBERT JAMES, Khartoum St., Kedron, Brisbane, Queensland, Australia. (Age 26. Born Ipswich, Queensland, Australia.) Oct. 1917 to Feb. 1920 Jun., City Elec. Light Co., Ltd., Brisbane, Queensland, drawing office work. TT 2.4: SP 2.4. May 1920 to July 1923 Asst. Draftsman, Water Supply Dept., Brisbane, drafting town water supplies, artesian bore works, etc. TT 3.2: SP 3.2. July 1923 to date Draftsman, Irrigation and Water Supply Comm., Brisbane, drafting, design and computations, water supply and irrigation work. TT 4.2: SP 3.2: P 1: D 1. TT 9.9: SP 8.9: P 1: D 1. Refers to H. M. Sherrard. (Applies in accordance with Sec. 1, Art. 1, of the By-Laws.)

## 1548

(11) STEELE, BYRAM WHITMORE, 1441 Welton St., Denver, Colo. (Age 41. Born Winterset, Iowa.) 1911 B. S. in C. E., Iowa State Coll. TT 2: SP 2. July 1906 to Oct. 1909 with S. W. Brent and U. S. Geological Survey, on surveys. June 1910 to 1911 Chf. of Party for Russell Kimball, Casper, Wyo., irrigation, mining and municipal surveys, designs and estimates, etc. TT 1: P 1: RC 1: D 0.3. Feb. to Aug. 1911 Constr. Engr., Rock Creek Conservation Co., irrigation structures. TT 0.6: P 0.6: RC 0.6. 1912 to 1916 not on engineering. Sept. 1917 to July 1918 Supt. of Constr., North Sanders Cooperative Ditch Co., in charge of design and construction of irrigation structures. TT 0.9: P 0.9: RC 0.9: D 0.4. Aug. 1918 to Feb. 1919 Bridge Inspector, Montana Highway Dept., in field and in office on designs. TT 0.6: SP 0.6. Sept. 1919 to Feb. 1920 Topographic Draftsman, U. S. Forest Service, Denver, Colo. TT 0.5: SP 0.5. Feb. to Oct. 1920 Supt. of Constr., Lake View Canal Co. TT 0.7: P 0.7: RC 0.7: D 0.2. Nov. 1920 to date with Bureau of Reclamation, Denver, Colo., until Nov. 1923 Asst. Engr. on preliminary designs and estimates of dams, etc., then Engr. on designs and estimates of major structures, including Black Canyon, American

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View nation, s, etc., erican Falls, Stony Gorge, Gibson and Echo dams. TT 7: P 7: RC 4: D 7. TT 13.3: SP 3.1: P 10.2: RC 7.2: D 7.9. Refers to J. J. Doland, S. O. Harper, I. E. Houk, J. Munn, J. L. Savage, R. F. Walter, A. J. Wiley.

1549

(1) STEM, ALBERT FRANKLIN, 356 Heberton Ave., Port Richmond, N. Y. (Age 21. Born Plainfield, N. J.) 1927 B. S. in Civ. Eng., Brooklyn Pol. Inst. Summer 1926 Transitman on subdivision work, Glen E. Balch, Engr. in Chg., St. George, Staten Island. TT 2: SP 2. Refers to H. R. Codwise, H. P. Hammond, C. W. Hudson, E. J. Squire.

1550

(1) STEPHENS, GOLDSMITH CHRISTIAN, Jr., 63 Stuart Ave., Mamaroneck, N. Y. (Age 25. Born Albany, N. Y.) 1925 C. E., Rens. Pol. Inst. TT 2: SP 2. June to Sept. 1921 with The Foundation Co., New York City, as Timekeeper and Asst. Engr., taking notes for building examination committees, etc. July to Sept. 1922 with Terry & Tench, Inc., New York City, as Clerk, timekeeping, estimating, etc. June 1924 to May 1925 with Port of New York Authority, New York City, as Rodman and Levelman, statistical work, etc. TT 0.8: SP 0.8. July to Nov. 1925 Draftsman with Bridge Engr., Delaware, Lackawanna and Western R. R., steel, reinforced concrete and timber drafting and checking, some design and quantity estimating. TT 0.4: SP 0.4. Nov. 1925 to Sept. 1927 with Kenn-Well Contr. Co., New York Edison Co. East River Station, New York City, as Eng. Asst., checking structural steel, field inspection, and estimating, writing contracts, etc. TT 1.8: SP 1.8. TT 5: SP 5. Refers to W. J. Boucher, E. R. Cary, L. W. Clark, F. E. Cudworth, R. Hoppen, Jr., T. R. Lawson, P. C. Ricketts, W. W. Rousseau, J. L. Vogel.

1551

(i) STURGES, WARD HERINDEEN, 167 West 231st St., New York City. (Age 24. Born New York City.) March 1922 to Aug. 1925 with Turner Constr. Co., New York City, as Job Accountant (2 years) and Asst. Field Engr. TT 3.4: SP 2.4: P1. Aug. 1925 to date with Barney Ahlers Constr. Co., New York City, ½ year as Cost Accountant and Estimator, 1 year Asst. Supt., Field Engr. and remainder of time Supt. of Constr. completing jobs. TT 2.1: SP 0.5: P1.6: RC 1.6. TT 5.5: SP 2.9: P2.6: RC 1.6. Refers to J. G. Ahlers, W. J. Barney, E. J. Moore, E. F. Neuberger, W. W. Roberts, Jr.

1552

(i) SUTCLIFFE, ERIC JOHN, County Hall, Wakefield, England. (Age 39. Born Hebden Bridge, Yorkshire, England.) Aug. 1905 to Feb. 1913 Articled Pupil and (3½ years) Asst. Archt. with T. Kershaw, Halifax, shops, banks, factories, etc. TT 7.5: SP 4: P 3.5. Feb. to May 1913 Asst. Valuer, Valuation Dept., British Govt. TT 0.3: P 0.3. May 1913 to Feb. 1915 Asst. Archt., West Riding County Council, Yorkshire, England, on design and supervision of police stations, asylum extensions, sanatoria, etc. TT 1.7: P 1.7: RC 1.7. Feb. to Dec. 1915 war service with British Forces. Dec. 1915 to June 1916 Special Asst. Engr. for Main Drainage Engr., Alexandria, Egypt, on drainage and road works. TT 0.5: P 0.5: RC 0.5. June 1916 to July 1919 Archt. and Engr. to Commanding Royal Engr., Cairo, on drainage, barrack buildings, roads, water services, engineering plant, etc. TT 3: P 3: D 3. July 1919 to date Asst. Archt. and Engr. to County Council of West Riding of Yorkshire, ferro concrete and steel work, police stations and general administrative buildings. TT 8: P 8: D 8. TT 21: SP 4: P 17: RO 2.3: D 11. Refers to J. Husband. (Applies in accordance with Sec. 1, Art. I, of the By-Laws.)

1553

(1) THOMAS, FREDER; CK GEORGE, P. O. Box 1158, Johannesburg, South Africa. (Age 27. Born London, England.) Jan. 1917 to Jan. 1920 Jun. Draftsman to Jun. Engr., Trussed Concrete Steel Co., Ltd., London, England. TT 3: SP 3. Feb. to May 1920 with A. G. Walker, London, as Asst. to Engr., on reinforced concrete construction, civil engineering, etc. TT 0.3: SP 0.3. June 1920 to Oct. 1923 Asst. Res. Engr., Warden Foote & Co., Capetown, South Africa, on design of reinforced concrete construction. TT 3.4: SP 1.5: P 1.9: RC 0.4: D 3. Nov. 1923 to date Structural Engr., Reinforcing Steel Co., Ltd., Johannesburg, South Africa, on design of reinforced concrete construction; past two years has been responsible for structural design and supervision of 7-story office building for North British & Mercantile Insurance Co., Ltd., filtration plant for Durban Water Scheme, Northdene. 6-story offices and flats for Lawson & Ginsberg, bridge (500 ft. long, 5 piers) for Durban North Estates, 3-story Mill for Pretoria West Flour Milling Co., and St. Mary's Cathedral, Johannesburg (total estimated cost over \$200 000). TT 3.7: P 3.7: RC 3.7. TT 10.4: SP 4.8: P 5.6; RC 4.1: D 3. (Applies in accordance with Sec. 1, Art. I of the By-Laws.) 1554

(1) THOMPSON, WALTER EDWIN, 410 Ninety-Fourth St., Woodhaven, N. Y. (Age 26. Born Philadelphia, Pa.) 1923 B. S. in Civ. Eng., Pa. State Coll. TT 2: SP 2. July to

Sept. 1923 Computer, Phoenix Utility Co., Allentown, Pa. TT 0.2: SP 0.2. Feb. 1924 to Aug. 1926 Jun. Asst. Engr., New York State Highway Bureau, some highway design, estimating, special bridge studies, etc. TT 2.5: SP 1.9: P 0.6: D 0.2. Aug. 1926 to date Jun. Engr., New York State Transit Comm., New York City, preliminary grade-crossing elimination studies, checking plans, some technical accounting, etc. TT 1.1: SP 0.3: P 0.3. TT 5.7: SP 4.3: P 1.4: D 0.2. Refers to T. M. Ripley, E. D. Walker.

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1555

(4) TOTH, ALEXANDER STEPHEN, 1450 North Etting St., Philadelephia, Pa. (Age 26. Born Buda Pest, Hungary.) 1925 B. S. in Civ. Eng., and C. E., Manhattan Coll. TT 2: SP 2. June to Sept. 1925 Detailer, American Bridge Co. TT 0.2: P 0.2. Sept. 1925 to June 1927 Asst. Prof. of Civ. Eng., Manhattan Coll., instructing in structures and bridge design. TT 1.8: SP 1.8. TT 4: SP 3.8: P 0.2. Refers to J. J. Costa, S. J. Scacciaferro, G. H. Shaw, W. H. Yates.

1556

(9) WARDLE, CHARLES WILLIAM, P. O. Box 505, Central City, Ky. (Age 39. Born Maysville, Ky.) 1911 B. M. E., State Univ. of Ky. TT 2: SP 2. June 1911 to Jan. 1912 and Aug. 1912 to Dec. 1913 Jun. Topographer, U. S. Geological Survey. TT 1.9: P 1.9. Jan. to Aug. 1912 Transitmen, Tennessee Coal, Iron & Ry. Co., Birmingham, Ala. TT 0.6: P 0.6. Dec. 1913 to Sept. 1914 Transitman, Woodward (Ala.) Iron Co. TT 0.7: P 0.7. Sept. 1914 to June 1917 with American Zinc Co., Mascot, Tenn., first as Min. Engr., then on design and construction and finally on design and installation of plant and equipment of isolated mining property. TT 2.8: P 2.8: RC 1.8. June 1917 to June 1919 1st Lieut., Engrs., U. S. Army; at present Capt., Engr. Reserve. TT 2: P 2. June to Nov. 1919 Draftsman, American Zinc Co., Mascot, Tenn. TT 0.4: P 0.4. Nov. 1919 to Feb. 1920 Transitman, Lafollette (Tenn.) Coal & Iron Co. TT 0.3: P 0.3. Feb. 1920 to Dec. 1922 with Tennessee Copper Co., Copperhill, Tenn., design on smelter, acid plant and concentrating mills, later in charge of construction of concentrating mill. TT 2.9: P 2.9: RC 1.5. Dec. 1922 to date in private practice of mining, municipal and civil engineering, including design and construction of plants, planning underground mining systems, etc., having two field parties on mine survey work; also contract engineering on paving sewerage and water-works; since Feb. 1927 also Supt. of Operations for Natural Rock Asphalt Corporation, Owensboro, Ky. TT 4.9: P 4.9: RC 4.9. TT 18.5: SP 2: P 16.5: RC 8.2. Refers to W. J. Carrel, J. H. Conzelman. F. C. Dugan, C. L. Sadler, D. V. Terrell.

1557

(15) WARE, BURNETT, Care, Southwestern Graphite Co., Burnet, Tex. (Age 26. Born Piedras Negras, Coah., Mexico.) Sept. 1925 to March 1927 student, Coll. of Eng., Univ. of TT 0.7: SP 0.7. Sept. to Nov. 1922 and Jan. to April 1923 Rodman, Eagle Pass & Piedras Negras Bridge Co., Eagle Pass, Tex. TT 0.4: SP 0.4. June to Sept. 1923 Inspector and Asst. Foreman on concrete bridges, Alamo Constr. Co. TT 0.2: P 0.2. Sept. 1923 to June 1924 Constr. Foreman, Truck Body Div., and Sept. 1924 to Sept. 1925 Draftsman and Designer of truck bodies, International Sash & Door Co., Piedras Negras, Mexico. TT 1.7: P 1.7: RC 1: D 1. June to Sept. 1924 Inspector of wooden bridges, Eagle Pass & Piedras Negras Bridge Co., Alamo Constr. Co., Bldrs. TT 0.2: P 0.2. June to July 1926 Rodman, Walton & Arneson Co. July to Sept. 1926 with The Terrel Bartlett Engrs., San Antonio, Tex., as Inspector of concrete and reinforcing steel, also in charge of excavation of March to June 1927 Leveler and Topographer, Maverick County Water foundations. Improvement Dist. TT 0.2: P 0.2. TT 3.6: SP 1.1: P 2.5: RC 1: D 1. Refers to E. C. H. Bantel, J. S. Fenner, J. W. Porter, W. L. Rockwell, T. U. Taylor.

1558

(1) WARN, CARL ADOLPHUS, 80 Smith Ave., White Plains, N. Y. (Age 24. Born Ogden, Kans.) Sept. 1924 to Sept. 1925 Pile Inspector, Kenn-Well Contr. Co., New York City, also acted as Rodman and Chainman and checked forms for concrete. TT 1: SP 1. Nov. 1925 to July 1927 Rodman and Transitman for W. W. Young, White Piains, N. Y. assisted in survey studies for trunk line sewers. TT 1.7: SP 1.7. July to Sept. 1927 Chf. of Party, Sleepy Hollow Development, Tarrytown, N. Y., laying out roads, sections and profile for sewer, giving grades, running sewer line and setting monuments. TT 0.2: SP 0.2. TT 2.9: SP 2.9. Refers to F. E. Cudworth, G. W. Gardner, D. C. Nolan, Jr., J. Verner, F. C. Zeigler.

1559

(15) WEBB, CHARLES MARCUS, Box 1073, San Antonio, Tex. (Age 25. Born Beaumont, Tex.) 1924 B. S. in C. E., Agri. and Mech. Coll. of Tex. TT 2: SP 2. July 1924 to date Designer, with M. L. Diver, Cons. Engr., on reinforced concrete and steel structures. TT 3.2: SP 1.2: P 2: RC 1.5: D 0.5. TT 5.2: SP 3.2: P 2: RC 1.5: D 0.5. Refers to M. L. Diver, G. M. Jowers, J. J. Richey.

(Age 39. Born (1) WELCH, EDWARD EVERETT, 1514 Twelfth St., Sacramento, Cal. Brown, Iowa.) June 1917 to Jan. 1918 Chainman, Rodman and Instrumentman, Rec. Dist. No. 1500, Knights Landing, Cal. TT 0.6: SP 0.6. April 1918 to May 1919 Private 1st class, Co. B, 316th Field Signal Battalion, 91st Div., U. S. Army, Camp Lewis, England, France, Belgium. May 1919 to April 1920 Levelman, Draftsman and Chf. of Party, Sutter Basin Co., Knights Landing, on irrigation survey work and land subdivision. TT 1: SP 0.8: P 0.2. April to June 1920 Chf. of Party, Stanislaus Farms Co., Modesto, Cal., reclamation survey work. TT 0.2: P 0.2. June 1920 to Sept. 1923 Draftsman, Chf. of Party and Office Engr., Excelsior Water & Power Co., Sacramento, on hydro-electric surveys, investigations, design, reports, water rights hearings. TT 3.2: SP 1: P 2.2: RC 2.2: D 1. Sept. 1923 to date Inspector, Draftsman, Computer, and Designer, City of Sacramento, Eng. Dept., flood control, street work, reinforced concrete design and construction. TT 4: SP 1: P 2: RC 2: D 2. TT 9: SP 3.4: P 5.6: RC 4.2: D 3. Refers to D. R. Cate, A. Givan, S. A. Hart, J. R. Shields, A. J. Wagner.

1561

(1) WELLS, OSCAR, 794 Hewitt Place, New York City. (Age 47. Born Csongrad, Hungary.) 1904 C. E., Royal Hungarian Joseph Univ., Budapest. TT 2: SP 2. 1904 to 1907 practicing Engr. with firm, Les Hirschler Railroad Constructor, Budapest, Hungary. TT 3: SP 3. 1907 to Nov. 1921 with Royal Hungarian State Rys., until 1918 as Engr., being Res. Engr. and Div. Engr., on construction, and designing new railroads; then Chf. Engr., being Chf. of Party tracing new railroads and in charge of construction (180 miles). TT 14.8: P 14.8: RC 6.8: D 3.2. Nov. 1921 to May 1923 Draftsman and Letterer, Sanborn Map Co., Pelham, N. Y. TT 1.5: SP 1.5. May 1923 to March 1925 Draftsman with Francis Lee Stuart, Cons. Engr., study of belt lines in New York harbor, maps, design and estimates. TT 1.9: P 1.9: D 0.9. March to Nov. 1925 Engr.-Draftsman with Walter I. Browne, Civ. Engr. and City Surveyor, Elmhurst, N. Y., calculations in subdivisional work. TT 0.7: P 0.7. Nov. 1925 to Sept. 1927 Chf. Draftsman, Seaboard Air Line Ry., in charge of Drafting Dept., Office of Constr. Engr. during construction of East Coast Lines. TT 1.9: P 1.9: RC 1.9: TT 25.8: SP 6.5: P 19.3: RC 8.7: D 5.1. Refers to J. M. Belknap, W. J. Boucher, E. E. Halmos, G. P. Stowitts, F. L. Stuart.

1562

(1) WILLIG, WALTER LEE, 554 Willett Ave., Port Chester, N. Y. (Age 25. Born Greenwich, Conn.) 1926 Sc. B. in C. E., N. Y. Univ. TT 2: SP 2. July 1919 to Sept. 1922 and Sept. 1922 to Aug. 1923 (while student) with L. C. L. Smith, Cons. Engr., Long Island City, as Rodman, Chainman, Transitman, Draftsman, Computer, and Chf. of Party in charge of field work. TT 3.2: SP 3.2. Aug. 1923 to June 1926 (vacations, etc.) and June 1926 to date with R. E. Carlin, Civ. Engr. and City Surveyor, Long Island City, until June 1926 as Computer and Chf. of Party, and since then Asst. to Mr. Carlin, on preliminary superintendence of excavation, foundation and first floor layout on apartment houses and smaller dwellings, field and office, drafting, computing, investigating and planning jobs, in charge of part of field work. TT 1.3: P 1.3: RC 1.3. TT 6.5: SP 5.2: P 1.3: RC 1.3. Refers to A. Haring, E. G. Hooper, N. Oppenheim, C. T. Schwarze, L. C. L. Smith, C. H. Snow, D. S. Trowbridge.

1563

(2) WORCESTER, THOMAS, 79 Milk St., Boston, Mass. (Age 31. Born Waltham, Mass.) 1919 A. B., Harvard Univ. TT 2: SP 2. 1919 to 1920 student, Harvard Eng. School. July 1920 to May 1921 Draftsman, J. R. Worcester & Co., surveying, drafting and inspecting. TT 0.8: SP 0.8. May 1921 to Dec. 1922 Draftsman, City Engr.'s Office, Waltham, Mass., surveying, Chf. of Party, drafting, inspecting and some designing. TT 1.4: SP 1.2: P 0.2: RC 0.1: D 0.1. Jan. to Dec. 1923 Draftsman and Designer, C. D. Howe & Co., drafting and design on grain elevators and design and supervision of construction of skating rink. TT 0.9: SP 0.4: P 0.5: RC 0.4: D 0.1. Jan. 1924 to date member of firm of J. R. Worcester & Co., Boston, Mass., work includes design and supervision of buildings, bridges, etc. TT 3.8: P 3.8: RC 2: D 1.8. TT 8.9: SP 4.4: P 4.5: RC 2.5: D 2. Refers to G. H. Brazer, C. D. Howe, E. A. Norwood, E. E. Pettee, H. B. Pratt, G. Small, J. R. Worcester.

# FOR TRANSFER

FROM THE GRADE OF ASSOCIATE MEMBER

1564

(11) BAILHACHE, JOHN GOODIN, Assoc. M., 1015 North Second St., Phoenix, Ariz. (Elected Junior March 4, 1914; Assoc. M. Oct. 14, 1919.) (Age 35. Born San Diego, Cal.) 3% years student, Cogswell Polytechnical Coll., San Francisco, Cal. June to Sept. 1911

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Timekeeper and Sub-foreman, Moore & Scott Shipbuilding Co., Oakland, Cal. TT 0.3: SP 0.3. Sept. 1911 to Jan. 1912 Pump Engr. and Asst. Supt., on construction of wing dam and excavation, and April to Nov. 1912 Supt. in complete charge, Duck Bar Gravel Mine, completing dam, moving in machinery, erecting camp buildings, derricks, etc. TT 0.9: SP 0.3: P 0.6: RC 0.6. Nov. 1912 to Nov. 1913 Asst. Engr. with J. H. Dockweiler, reports and valuations, water works and irrigation. TT 1: SP 0.2: P 0.8: RC 0.8. Nov. 1913 to Feb. 1914 Asst. Engr. with Hermann & Elliott on valuation water works. TT 0.2: P 0.2: RC 0.2. March 1914 to Oct. 1916 Asst. Engr., Valuation Dept., City of San Francisco, estimate of pipe lines, relative costs of water systems, being First Asst. Engr. during Spring Valley Water Co. litigation (\$40 000 000), in charge, under Valuation Engr., of gathering and complling data, making maps, design and cost estimate of substitutional irrigation system (9 300 acres), etc. TT 2.6: SP 0.6: P 2: RC 2: D 0.2. Nov. to Dec. 1916 Charge of Party on location of drainage ditches, Tracy, Cal. TT 0.2: P 0.2: RC 0.2. Jan. to Feb 1917 Transitman and Inspector of ore, underground, Ray (Ariz.) Consolidated Copper Co. TT 0.2: SP 0.2. Feb. to June 1917 Res. Engr. on concrete street improvement (\$35 000) and in charge of field parties on surveys and land leveling for City Engr., Blythe, Cal. TT 0.4: P 0.4: RC 0.4. Aug. 1917 Asst. Engr., Valuation Dept., San Francisco. TT 0.1: P 0.1: RC 0.1. Sept. 1917 to Feb. 1918 2d Lieut., Engrs., U. S. Army Reserve, at training camp (3 months) and with 4th U. S. Engrs. (3 months). TT 0.5: SP 0.5. March to Oct. 1918 Res. Engr., Hill & Ferguson, Cons. Engrs., New York City, on construction of Elizabeth (N. J.) mechanical concrete filter station and pumping plant (\$1 000 000). TT 0.7: P 0.7: PC 0.7. May to Aug. 1919 Asst. Engr., Moore Shipbuilding Co., on construction of 10 000-ton floating dry-dock and two 5 000-ton marine ways. TT 0.3: P 0.3: RC 0.3. Aug. TT 0.2: P 0.2. Aug. to Oct. 1919 private practice at Sacramento, Cal., irrigation surveys, etc. TT 0.2: P 0.2. Oct. 1919 to Jan. 1920 with R. W. Waterman, in charge of four survey parties, irrigation work, mapping, street improvement, being Supt. on land leveling contract, etc. TT 0.4: P 0.4: RC 0.4. Jan. to June 1920 with Wiley Giffen, Fresno, Cal., as Supt. and Res. Engr. in charge of 3 400-acre Tipton Irrigation Development, installation of 48 pumps, land leveling (1 000 acres), ditches, subdivision and maps. TT 0.6: P 0.6: RC 0.6. July 1920 to Oct. 1922 Chf. Hydrographer, in charge of Hydrographic Dept. Salt River Valley Water Users Association, Phoenix, Ariz., Roosevelt Project, water measurement ratings seepage tests, design of automatic spillways, recording weirs, Venturi meters, etc., and (6 weeks) on power report. TT 2.2: P 2.2: RC 2.2: D 0.5. Oct. 1922 to March 1923 Designing Engr. for J. B. Girand, Cons. Engr., Phoenix, on reinforced concrete diversion dam. TT 0.4: P 0.4: RC 0.4: D 0.4. 1923 to date Chf. Engr., Verde River Irrigation & Power Dist., Phoenix (proposed development, \$23,000,000), complete report, including water and power analysis for 100 000 acres and 82 000 hydro-electric h. p., cost estimate, plans, design of dams, flumes, power plants, etc., also Dist. Engr., Gila Valley Water Conservation Dist. being expert witness in two water suits; since 1924 with Maricopa County Municipal Water Conservation Dist. No. 1 reporting on water-supply and hydro-electric power, and at present as Asst. Chf. Engr. on design and construction of irrigation project including Lake Pleasant Multiple Arch Dam (252 ft. high, 1900 ft. long), spillway, main canal (32 miles), laterals (100 miles), etc., also expert witness on injunction water suit. TT 4.2: P 4.2: RC 4.2: D 2.3. TT 15.4: SP 2.1: P 13.3: RC 13.1: D 3.4. Refers to C. C. Cragin, J. B. Girand, C. E. Griggs, T. Maddock, T. H. Means, F. J. O'Hara, G. E. P. Smith.

#### 1565

(11) BAUMAN, PAUL, Assoc. M., 1106 Hollingsworth Bldg., Los Angeles, Cal. Junior Nov. 21, 1921; Assoc. M. March 12, 1923.) (Age 35. Born Bern, Switzerland.) 1918 Dipl. Engr., Swiss Pol. Univ. TT 2: SP 2. Sept. 1913 to Feb. 1914 Draftsman, Buhlman & Glauser Ingenieur-Bureau, Bern, Switzerland, reinforced concrete, steel and timber structures, office and field work. TT 0.5: SP 0.3: P 0.2: D 0.2. Aug. 1914 to July 1918 with Swiss Engrs., until Jan. 1915 as Sergeant, 3d Corps, on reinforced concrete structures, survey, design and layout in field of strategic roads, timber bridge design and construction, then Lieut., 4th Corps, on survey, design, layout and construction of highways, artificial structures, river corrections, tunnels, etc. TT 3: SP 0.8: P 2.2: RC 2.2: D 0.6. July 1918 to Jan. 1919 Surveyor and Designer with Force Motrice Bernoise (B.K.W.) on hydro-electric plants (Oberhasli Weke Kanton Bern). TT 0.4: P 0.4: RC 0.2: D 0.2. Feb. to May 1919 Designer with H. Haenni, Contr., Bern, structural design, reinforced concrete and steel. TT 0.3: P 0.3: RC 0.3: D 0.3. June to Dec. 1920 Draftsman and Designer, Fargo Eng. Co., Jackson, Mich., architectural details, reinforced concrete, studies and reports on hydroelectric plants. TT 0.6: SP 0.2: P 0.4: D 0.4. Dec. 1920 to Nov. 1921 Surveyor and Designer, Beckman & Linden Corporation, San Francisco and Phoenix, planetable survey, dam design and artificial structures on canal line. TT 0.9: P 0.9: RC 0.5: D 0.6. Dec. 1921 to 0.3.

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July 1925 with Arrowhead Lake Co., Lake Arrowhead, Cal., until June 1922 as Designer of bridges, trusses, etc., dams, studies on hydro-electric and irrigation projects; then Chf. Draftsman and Asst. Engr., and after Oct. 1922 in charge of all engineering work, on waterpower and sewer systems, subdivisions, artificial structures, design of reinforced concrete steel and timber structures, mechanical design, mountain road, timber trestle bridges, hydro-electric power plant construction, etc. TT 3.7: P 3.7: RC 3.5: D 1.4. July 1925 to April 19.6 studying hydro-electric power plants and automatic spillway gates in Canada and Europe. June 1926 to date Designing Engr. with Quinton, Code & Hill, Cons. Engrs., Los Angeles, reports on feasibility of hydro-electric and irrigation developments, dams, automatic gates, etc. TT 1.3: P 1.3: RC 0.7: D 0.9. TT 12.7: SP 3.2: P 9.5: RC 7.5: D 4.8. Refers to W. H. Code, W. G. Fargo, L. C. Hill, R. A. Hill, F. A. Noetzli, F. H. Olmsted, A. J. Salisbury, Jr.

#### 1566

(9) BLOXTON, CONWAY RUSSELL, Assoc. M., P. O. Box 355, Frankfort, Ky. (Elected Dec. 15, 1924.) (Age 31. Born Calverton, Va.) 1918 B. S. in Civ. Eng., Va. Pol. Inst. TT 2: SP 2. Aug. to Dec. 1918 2d Lieut., 605th Engr. Regt., U. S. Corps of Engrs., and other regiments at Washington Barracks. TT 0.4: P0.4: RC 0.4. Jan. to March 1919 Inspector on plant construction, Newport News (Va.) Shipbuilding & Dry Dock Co. TT 0.2: SP 0.2. April to June 1919 Jun. Engr., Illinois State Highway Dept., Springfield, checking plans, bid tabulation, etc. TT 0.2: SP 0.2. Nov. 1920 to April 1921 with Atlas Portland Cement Co., Northampton, Pa., as Designer of machinery, buildings and general plant layout. TT 0.5: P 0.5: D 0.5. July to Nov. 1919 Designer on highway bridges, and April 1921 to date Designer, Chf. Draftsman and Asst. Bridge Engr., on highway bridge design and supervision of design, Bridge Dept., Kentucky State Highway Dept., Frankfort, Ky. TT 7.6: P 7.6: RC 4.6: D 3. TT 10.9: SP 2.4: P 8.5: RC 5: D 3.5. Refers to W. J. Camlin, W. J. Carrel, J. M. Johnson, J. T. Madison, J. L. Nagle, E. N. Todd.

#### 1567

(14) BOYCE, EARNEST, Assoc. M., 1703 Indiana St., Lawrence, Kans. (Elected April 3. 1922.) (Age 35. Born Winterset, Iowa.) 1917 B. S. in C. E., Iowa State Coll. TT 2: SP 2. Summer 1915 Student Asst. Engr., Experiment Station, Ames, Iowa. Summer 1916 Asst. to County Engr., Pocahontas Co., Iowa. May 1917 to Jan. 1919 2d Lieut., C. A. R. C., 1st Lieut., and Capt., C. A. C., U. S. Army, at First Officers' Training Camp, Ft. Snelling, Minn., Ft. Monroe, Va., Ft. H. G. Wright, N. Y., with Battery F, 56th Art.; oversea service (March to Dec. 1918). TT 1.7: P 1.7: RC 0.5. Feb. 1919 to Oct. 1920 Asst. Engr. with Pritchett & Hight (later Pritchett & Fry), Little Rock, Ark., location and preliminary work on drainage and highway projects, being Res. Engr. on highway construction. TT 1.7: P 1.7: RC 1.7: D 1. Oct. 1920 to July 1921 Asst. Engr., July 1921 to Sept. 1924 First Asst. Engr., and Sept. 1924 to date Chf. Engr. and Director, Div. of Water and Sewage, Kansas State Board of Health; also July 1921 to Sept. 1924 Asst. Prof., and since Sept. 1924 Assoc. Prof. of San. Eng., Univ. of Kansas. TT 7: P7: RC 6.2: D 2.5. TT 12.4: SP 2: P 10.4: RC 8.4: D 3.5. Refers to E. B. Black, P. L. Brockway, H. W. Crawford, E. H. Dunmire, F. W. Epps, C. A. Haskins, A. H. Jewell, R. E. McDonnell, A. Marston, R. J. Paulette, N. T. Veatch, Jr. 1568

(4) CAVENDER, WILLIAM MINIFIE, Assoc. M., 511 McCabe Ave., Wilmington, Del. (Elected Aug. 31, 1925.) (Age 37. Born Castleton, Md.) 1914 C. E., Syracuse Univ. TT 2: SP 2. June 1914 to Feb. 1915 and June to Oct. 1915 Transitman and Draftsman with H. C. Allen, Cons. Engr., Syracuse, N. Y., tract developments, sewage-disposal systems, etc. TT 1.2: SP 1: P 0.2. March to May 1915 and Nov. 1915 to July 1917 Designer and Draftsman, Semet-Solvay Co., Inc., Syracuse, plant layout, mapping, design of steel, concrete and frame structures, etc. TT 2: SP 1.3: P 0.7: D 0.7. Aug. 1917 to April 1918 Constr. Engr., Thompson & Binger, Inc., Syracuse, in charge of field engineering and details of construction on two industrial buildings. TT 0.8: P 0.8: RC 0.8: D 0.1. May 1918 to July 1919 Superv. Draftsman, U. S. Ordnance Engr. Dept., Washington, D. C., in charge of checking, classifying and revising drawings of tanks, tractors and trucks. TT 1.2: P 1.2: RC 1.2: D 0.6. July 1919 to June 1920 Constr. and Cost Engr., Thompson & Binger, Inc., Syracuse, in charge of field engineering and construction details on power plant and packing house, also unit cost of operations. TT 0.9: P 0.9: RC 0.5: D 0.1. June to Sept. 1920 Supt. of Constr., Concrete Steel Bridge Co., Clarksburg, W. Va., concrete foundations and framing on hotel building. TT 0.3: P 0.3: RC 0.3. Dec. 1920 to June 1922 Civ. Engr., City Eng. Dept., Los Angeles, Cal., investigations, designs, specifications, estimates, assessments, inspection of construction of various sewer systems. TT 1.5: P 1.5: RC 1: D 0.7. Dec. 1922 to March 1923 Supt. of Constr. with W. F. Cush, Contr., Washington, D. C., footings and basement walls for 7-story office building. TT 0.3: P 0.3: RC 0.3. June 1923 to date Civ. Engr., E. I. duPont de Nemours & Co., Wilmington, Del., having supervision of Civ. Eng. Sec., including design of concrete, steel and frame buildings, bridges, trestles, highways, streets, railroads, sewer systems, sewage-disposal plants, wharf and river improvements, penstocks, etc., investigation of water pollution, sewage disposal, floor loadings, building failures, traffic, transportation, etc., inspection and construction of various structures, surveys, mapping, plant layout and industrial village planning. TT 4.3: P 4.3: RC 3.9: D 2.5. TT 14.5: SP 4.3: P 10.2: RC 8: D 4.7. Refers to E. R. Armstrong, H. K. Babbitt, W. T. Knowlton, G. H. Shaw, H. S. Stanton, G. W. Thompson, J. L. Warner.

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### 1569

(11) CORTELYOU, HERMAN POLHEMUS, Assoc. M., 1755 West 39th St., Los Angeles, Cal. (Elected March 15, 1926.) (Age 40. Born Ewing, Nebr.) 1909 B. S., Univ. of Cal. TT 2: SP 2. June to Sept. 1909 Transitman, Los Angeles County Highway Comm., locating and staking highways and bridges. TT 0.3: P 0.3. Oct. 1909 to Oct. 1910 Asst. Engr., Burbank (Wash.) Power & Water Co., on surveys, in charge of flume, canal and dam construction. TT 1: P 1: RC 0.5: D 0.1. March 1911 to date with City Engr.'s office, Los Angeles, Cal., 1 year as Draftsman on street work plans, then on construction of public works, as Asst. Engr. (11 years), Inspector (1 year) and Engr. of Constr. (3 years); past 4 years has had responsible charge of bridges, storm-drain and sewer construction (over \$10 000 000 annually). TT 16: P 16: RC 7: D 0.3. TT 19.3: SP 2: P 17.3: RC 7.5: D 0.4. Refers to L. W. Armstrong, F. A. Batty, M. Dozier, Jr., W. E. Jessup, W. W. Patch, J. C. Shaw, R. W. Stewart, H. A. Van Norman.

#### 1570

(11) CORTELYOU, SPENCER VAN ZANDT, Assoc. M., 1111 Sun Finance Bidg., Los Angeles, Cal. (Elected April 4, 1911.) (Age 46. Born Harlengen, N. J.) 1902 B. Sc., Univ. of Nebr. TT 2: SP 2. June 1902 to Feb. 1903 Rodman and Draftsman, Los Angeles, Pacific R. R. work included design of substation buildings and machinery layouts. TT 0.7: SP 0.7: D 0.5. March to June 1903 Draftsman, San Pedro, Los Angeles and Salt Lake R. R., some design. TT 0.3: SP 0.3: D 0.2. July 1903 to Dec. 1907 with Insular Dept. of Public Works, Philippine Islands (under J. W. Beardsley) until Oct. 1903 as Surveyor on water power survey; Nov. 1903 to Jan. 1905 Provincial Supervisor of Pampanga, and after Feb. 1905 Dist. Engr., 4th Dist. and (July to Sept. 1907) 11th and 12th Dists. in charge of all public works in the Dist., including plans, estimates, reports, construction and maintenance of roads, bridges, public buildings, levees, small river control operations and water supply works, etc. TT 4.5: P 4.5: RC 4.2: D 0.3. Jan. to Dec. 1908 private practice land surveys and subdivision work, Los Angeles and Imperial Valley. TT 1: P 1: RC 1. Jan. 1909 to Jan. 1912 with Los Angeles County Highway Comm., as Chf. of Party, Chf. Surveyor, Office Engr. and Asst. Chf. Engr. of Surveys, planning and construction, 305-mile highway system. TT 3.1: P 3.1: RC 2.5: D 2. Feb. 1912 to date with Los Angeles Div., California Highway Comm., 12 years as Asst. Div. Engr. and remainder of time Div. Engr., in charge, under State Highway Engr., of surveys, plans, construction and maintenance of highways. TT 15.6: P 15.6: RC 9.6: D 6. TT 27.3: SP 3.1: P 24.2: RC 17.3: D 9. Refers to G. W. Jones, J. O. Marsh, W. W. Patch, C. S. Pope, T. E. Stanton, Jr., J. B. Woodson. 1571

(13) COTTEN, SHEPARD MARRAST, Assoc. M., 4117 Allendale Ave., Oakland, Cal. (Elected Jan. 19, 1925.) (Age 38. Born Waco, Tex.) April 1909 to Jan. 1913 (except Sept. 1911 to Aug. 1912 special student at Texas Agricultural and Mechanical Coll., with summer work at Univ. of Texas) Draftsman and Computer on railroad location, construction and maintenance and topographic surveys, with various western railroads. TT 2.9: SP 2.9. Jan. 1918 to Oct. 1914 Chf. Draftsman, Arizona Highway Dept., on design and plans for highways, bridges, etc. TT 1.7: P 1.7: D 1.7. Oct. 1914 to Jan. 1915 Designer, U. S. Reclamation Service, Salt River Valley Project, Phoenix, Ariz. TT 0.2: P 0.2: D 0.2. Jan. to June 1915 Draftsman, Arizona Eastern R. R. TT 0.4: SP 0.4. Jan. to April 1916 Draftsman, Texas & Pacific R. R. TT 0.2: SP 0.2. April 1916 to Jan. 1917 Designer and Checker, Bridge Dept., Kansas City Terminal Ry., heavy railroad viaduct and terminal construction (steel and concrete). TT 0.7: P 0.7: D 0.7. Sept. to Dec. 1917 Estimator and Computer, Bridge Branch, Div. of Valuation, Interstate Commerce Comm., Chattanooga, Tenn. TT 0.2: P 0.2. Jan. 1918 to Jan. 1919 Bridge and Structural Designer, Arizona Highway Dept., last 2 months Asst. Engr. on highway construction. TT 1: P 1: RC 1: D 1. Feb. to July 1919 Asst. Engr. on tunnel and outlet construction at Roosevelt Dam, and in charge of silt survey of Roosevelt Lake, for Salt River Valley Water Users Association (Salt River Project). TT 0.4: P 0.4: RC 0.4. July 1919 to Oct. 1922 Asst. Engr., City of Phoenix, Ariz., in charge of office and of design of pavements, sewers, etc., made various studies and reports. TT 3.2: P 3.2: RC 3.2: D 3.2. Oct. 1922 to Oct. 1923 Associate Civ. Engr. Public Works Dept., Mare Island Navy Yard, Cal., design of heavy reinforced concrete and timber structures, including quay walls, wharves and dikes. TT 1: P 1: D 1. Oct. 1923 to Aug. 1927 Structural Engr. and Designer, Oakland-Alameda Estuary Subway, Oakland, Cal., design of subaqueous tube, approaches, and ventilation buildings, and preparation of reports covering original studies and methods of analysis developed. TT 3.8: P 3.8: RC 3.8: D 3.8. TT 16.1: SP 3.6: P 12.5: RC 8.5: D 11.8. Refers to M. C. Collins, L. M. Cox, C. Derleth, Jr., H. D. Dewell, B. Jameyson, F. A. Noetzil, G. A. Posey.

1572

(7) DODDS, JOHN SIMPSON, Assoc. M., Box 202, Ames, Iowa. (Elected March 7, 1921.) (Age 42. Born Northfield, Minn.) 1912 B. S. in C. E., Iowa State Coll. TT 2: SP 2. April to Sept. of years 1901 and 1902 Rodman and Chainman, May to Sept. of years 1904 and 1905 Transitman and March 1907 to June 1908 Instrumentman and Chf. of Party on surveys, all for Blue Earth County, Minn. May to Nov. 1903 Chainman and Transitman, May to Sept. 1906 Chf. of Party in charge on land subdivision and June to Aug. 1908 Instrumentman, U. S. Goyt, Land Surveys, Dickinson, N. Dak. TT 0.5; SP 0.5. Aug. 1908 to Jan. 1909 and June to Sept. 1909 in private practice of surveying at Mankato, Minn. TT 0.7: P 0.7: RC 0.7. March 1910 to Jan. 1911 City Engr. of Canby, Minn., installing TT 0.8: P 0.8: RC 0.8. June to Sept. 1911 private practice, sewers and disposal plant. Sept. 1913 to Sept. 1917 with Iowa Highway Comm., Ames, Iowa, until Mankato, Minn. July 1915 as Engr. in charge of Educational Dept., then Asst. Road Engr. in charge of township road work. TT 3.8: P 3.8: RC 3.8: D 3.8. March 1912 to Sept. 1913 and Sept. 1917 to date with Iowa State Coll. engaged as follows: March to Dec. 1912 Engr. in charge, and April to Sept. 1913 Engr. and Supt. of Constr., on campus paving. Dec. 1912 to April 1913 Extension Lecturer on concrete and highways; Sept. 1917 to Sept. 1918 Acting Associate Prof. of Highways and since Sept. 1918 Associate Prof. in charge of Surveying Dept., C. E. Dept., also Sept. 1921 to Sept. 1922 loaned as Bulletin Editor, Eng. Experiment Station; March 1923 to date Director, Ames Summer Surveying Camp (Camp Marston); Jan. to April 1925 Acting Dean of Men, Iowa State Coll. TT 11.4: P 11.4: RC 11.4: D 8. TT 19.2: SP 2.5: P 16.7: RC 16.7: D 11.8. Refers to T. R. Agg, R. A. Caughey, A. H. Fuller, J. H. Griffith, W. J. Schlick, R. S. Wallis.

1573

(1) DURKEE, E. LELAND, Assoc. M., 220 Lincoln Ave., Elizabeth, N. J. (Elected April 12, 1926.) (Age 30. Born Dudley, Mass.) 1919 B. S. in Civ. Eng., and 1924 C. E., Worcester Pol. Inst. TT 2: SP 2. July 1919 to date with McClintic-Marshall Co. as follows: July 1919 to Aug. 1920 Draftsman, at Pottstown, Pa., detailing steel mill buildings, etc., including 6 months on shop details for an open-hearth building for Tata Iron & Steel Co. at Tatanagar, India; Aug. 1920 to Aug. 1921 Head Timekeeper with erection force at Tatanagar, on erection of steel mill buildings; Aug. 1921 to Feb. 1923 Pusher of native labor on erection of steel mill buildings at Tatanagar, assembling trusses, girders, etc., also filling in and fitting up steel work following its erection by locomotive cranes; Feb. to July 1923 Estimator and Designer, Eng. Dept., Pittsburgh, Pa., making quantity estimates of steel work for office and mill buildings, bridges, etc., and on design of mill buildings and small bridges; July 1923 to Jan. 1924 on design of long-span cantilever bridge over Sydney Harbor, New South Wales, Australia; complete design of steel superstructure, quantity estimate of materials, etc.; Jan. 1924 to Oct. 1925 designing and estimating structural steel, including design of long-span continuous truss bridge for Pennsylvania R. R. at Steubenville, Ohio, and detail design drawings for Roosevelt Ave. bascule bridge, New York City, etc.; Oct. to Nov. 1925 temporarily with Pittsburgh Testing Laboratory, made inspection, detailed report and drawings of highway bridge (16 latticed girder, deck truss spans); Nov. 1925 to Nov. 1926 assisted in preliminary design and quantity estimate of long-span suspension bridge over Detroit River at Detroit, Mich., also estimated and made detailed design drawings for Outerbridge Crossing, Perth Amboy, N. J., to Tottenville, S. I.; Dec. 1926 to Aug. 1927 Engr. of Erection, N. Y. Office, planning erection of Outerbridge Crossing, including alterations of an erection traveler, design of two new travelers, design and detailing of falsework and devices for controlling closure of cantilever arms, etc.; since Aug. 1927 Res. Engr., on erection of this crossing (construction by Port of New York Authority). TT 8.2: SP 1.1: P 7.1: RC 5.9: D 3.8. TT 10.2: SP 3.1: P 7.1: RC 5.9: D 3.8. Refers to E. F. Ball, M. Brown, P. A. Franklin, A. W. French, D. S. Gendell, Jr., J. Jones, G. H. Leland, M. G. Littlefield, R. MacMinn, G. L. Taylor.

(15) GUSTAFSON, EMIL NILES, Assoc. M., Bay City, Tex. (Elected March 12, 1918.) (Age 40. Born Macus, Iowa.) Student, School of Eng., Univ. of Texas (finished Junior year). TT 1: SP 1. July 1908 to Jan. 1910 with Sam Robertson, San Benito, Tex., as

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Rodman and Levelman on irrigation projects, and Fireman and Steam Shovel Operator on levee building machine. TT 1.5: SP 1.5. Jan. 1910 to Nov. 1912 Asst. Engr. and Chf. Draftsman for Matagorda County Drainage Dists. Nos. 2 and 4. TT 2.9: P 2.9. Nov. 1912 to Nov. 1916 County Surveyor, Matagorda County; in charge of topographical survey and maps (26 000 acres), design and reports for Drainage Dist. No. 5; Engr., Drainage Dist. No. 3, in charge of final surveys, estimates and reports; County Engr. on highway work. TT 4: P 4: RC 3: D 1. Nov. 1916 to Nov. 1917 Engr. in charge of Matagorda County highway work in several districts, also design and reports on road, drainage and irrigation construction. TT 1: P 1: RC 05: D 0.5. Nov. 1917 to Oct.. 1918 County Engr., Matagorda County, also on drainage and irrigation construction. TT 0.8: P 0.8: D 0.8. Oct. 1918 to Oct. 1919 Land Engr. and Draftsman in charge of locations and mapping of Texas Gulf Sulphur Co.'s properties, Guif, Tex. TT 1: P 1: RC 1. Oct. 1919 to Jan. 1922 Engr. in charge of State and Federal Aid construction of highways in Matagorda County Road Dist. No. 8, and of maintenance for Drainage Dist. No. 1, and Engr. for Matagorda County Levee Improvement Dist. 1. TT 2.3: P 2.3: RC 0.3: D 2. July 1919 to Jan. 1927 Chf. Engr. for Markham Irrigation Co., placing several canals on gravity system, extensions and surveys; also Jan. 1922 to Jan. 1924 Engr. in charge of State and Federal Aid Highway construction (20 miles), Brazoria County, Tex.; Sept. 1922 to Dec. 1923 also Chairman, Engrs.' Comm. for Colorado River watershed area, Texas, conservation of flood waters and flood protection. Sept. 1925 to March 1927 Engr., Matagorda County Levee Improvement Dist. No. 1, in charge on design, reports and maps and supervising construction. TT 5.2: P 5.2: RC 3.7: D 4. March to Sept. 1927 State Highway Div. Engr., Corpus Christi, Tex. TT 0.5: P 0.5: RC 0.5. Sept. 1927 to date State Res. and County Engr. on Matagorda County road construction. TT 0.2: TT 20.5: SP 2.5: P 18: RC 7.2: D 8.3. Refers to P. H. Everett, G. Gilchrist, J. M. Howe, C. H. Kendall, J. C. Nagle, R. A. Thompson, W. O. Washington.

1575

(15) HERRMANN, FRANK, Assoc. M., 1818 Linden St., Oklahoma City, Okla. (Elected May 8, 1922.) (Age 35. Born New York City.) 1913 C. E., Cornell Univ. TT 2: SP 2. 1913 to 1914 Asst. Engr. in charge of construction, Sierra Morena a Corralillo Extension, Cuban Central R. R.; also Leveler, Cuba R. R. TT 0.7: P 0.7: RC 0.7. 1914 to 1915 miscellaneous private practice. TT 0.7: P 0.7. 1915 to 1916 Teacher of Spanish and manual training, Castle Highway School, Las Vegas, N. Mex.; private surveying, etc. TT 0.3: P 0.3. 1916 to 1920 Chf. Draftsman, Asst. Engr., Designer, Bridge Engr., Res. Bridge Engr., etc., New Mexico State Highway Comm. TT 4: P 4: D 4. 1920 to 1921 Bridge Engr., 1921 (about 1 month) Acting State Engr., 1921 to 1923 Asst. State Engr., 1923 Res. Bridge Engr., 1923 to 1924 Div. Engr., and 1924 to date Testing Engr., Oklahoma State Highway Dept. TT 7.3: P 7.3: RC 4.6: D 0.8. TT 15: SP 2: P 13: RC 5.3: D 4.8. Refers to E. S. Alderman, J. M. Bischoff, L. J. Charles, J. C. Harvey, A. Montgomery, G. M. Neel, J. M. Page, A. O. Peabody, C. H. Rightmire, F. C. Thorpe, D. Witten, E. N. Wood.

1576

(1) LENECEK, JARRY ANTHONY, Assoc. M., 662 Eighty-Second St., Brooklyn, N. Y. (Elected June 1, 1925.) (Age 38. Born Prague, Czechoslovakia.) Licensed as Professional Engr. and Land Surveyor, New York State. 1912 C. E., Eng. Univ. of Prague, Czechoslovakia. TT 2: SP 2. July to Sept. 1912 Surveyor with G. Vejsicky, Cons. Engr. and Surveyor. TT 0.3: P 0.3. Oct. 1912 to May 1913 Engr., Depts. of War and Public Works, Austrian-Hungarian Govt., on design and construction of reinforced concrete fortifications, railway system, hydraulic studies for reservoir-dam project, design and estimate of flood protection TT 0.7: P 0.7: RC 0.8: D 0.7. June 1913 to Dec. 1914 with Orenstein-Arthur Koppel Co., New York City, until Aug. 1914 as Engr., in charge of location, design and construction of 38-mile division, lines, yards, terminals, stations, engine facilities, tunnels, bridges, culverts, trestles, etc., water supply and sewage system of communities, etc., then Asst. Engr., Industrial Railways, New York City, design, estimates and construction of industrial and construction track facilities. TT 1.6: P 1.6: RC 0.8: D 0.6. Jan. to April 1915 Eng. Designer with W. N. Smith, Archt., New York City, in charge of engineering work in design and estimate of reinforced concrete and structural steel buildings. TT 0.3: P 0.3: RC 0.3: D 0.3. May 1915 to Aug. 1916 Surveyor with P. M. Klein, Cons. Engr., New York City, field and office work on surveys, industrial plants, research and investigation work. TT 1.3: P 1.3: RC 0.5: D 0.3. Sept. 1916 to July 1923 Asst. Engr., Eng. and Constr. Dept., Erie R. R., New York City, in responsible charge of studies and design of yards, freight and passenger terminals, coal and water facilities, grade reductions, hydraulic studies of streams, reservoirs, dams, etc.; in charge of design of E. R. R. part in New York-New Jersey Vehicular Tunnel construction; last 6 years also on surveys, design, estimates, and engineering reports for several industrial concerns and others. TT 6.9: P 6.9: RC 5.3: D 6.4. Aug. 1923 to Dec. 1925 contracted by Special Board (Junta del Ferrocarril de Quito a Esmeraldas) under Secretary of Public Works, as Chf. Engr., Quito-Esmeraldas R. R. construction in Ecuador, S. A., in complete charge of engineering and construction (approx. 300 miles), (approx. \$30 000 000) reconnaissance, location, design of tunnels, bridges, culverts, trestles, buildings, terminal and station layouts, harbor and railroad operating facilities, etc., directed construction of upper half (Andean Section), excavation, grading, tunnels, bridges, culverts, stations, track work, etc. (\$10 000 000); also acted as Cons. Engr. to Secy. of Public Works, etc. TT 1.4: P 1.5: P 1.5:

## 1577

(5) LOHR, LENOX RILEY, Assoc. M., 810 Mills Bldg., Washington, D. C. (Elected June 7, 1926.) (Age 36. Born Washington, D. C.) 1916 M. E., Cornell Univ., Nov. 1916 to June 1917 with Coast Artillery Corps, U. S. Army, until April 1917 as 2d Lieut., being student, Coast Artillery School, Ft. Monroe, Va., then 1st Lieut., on coast defenses, Puget Sound. TT 0.5: P 0.5: RC 0.2. June 1917 to Jan. 1922 with Corps of Engrs., U. S. Army, until Oct. 1917 as 2d Lieut., then Capt., made instrumental survey and drew maps, northern half of Whidbey Island. Aug. 1917 to Jan. 1918 Co. Commander, Co. B, 4th Engrs., Vancouver Barracks, Wash.; designed and constructed 20 target rifle ranges, Vancouver Lake, Wash., also on construction of bridges, roads, mining, etc.; appointed Topographical Officer, 4th Engrs.; Jan.-March 1918 student, Codes and Ciphers, Riverbank Laboratory, Ill.; March to June 1918 Asst. and Acting Intelligence Officer (G-2), 4th Div., A. E. F.; June to Sept. 1918 student and graduate, Army Gen. Staff Coll., Langres, France; Sept. 1918 to March 1919 Brig. Adj., 57th Brig.; Oct. 1918 appointed Major, Corps of Engrs., Alsace Defensive Sector, Meuse Argonne Offensive; Pres., Board of Inspection of Guns of 29th Div. March to June 1919 student, Claire Coll., Cambridge Univ., England. July to Oct. 1919 in office of Chf. of Engrs., Washington, D. C., designing railway shop trains. Oct. 1919 to June 1920 Instructor, Elec. Eng., and June 1920 to Jan. 1922 Director, Mech. Depts., Engr. School, Ft. Humphreys, Va.; 3 months student, Motor Transport School, Camp Holabird, Md.; 2 weeks inspecting auto factories in Detroit; designed buildings, installed equipment, etc. TT 4.6: P 4.6: RC 3.6: D 2.2. Jan. to Aug. 1922 Managing Editor, and Aug. 1922 to date Editor, being Business Mgr. and Publisher, The Military Engineer, Washington, D. C.; since Jan. 1922 also Executive Secy., The Society of American Military Engineers; Member, Advisory Council, Federal Board of Surveys and Maps. TT 5.7: P 5.7: TT 12.7: SP 2: P. 10.7: RC 8.8: D 2.2. Refers to W. M. Black, F. C. Boggs, C. H. Birdseye, C. V. Hodgson, R. P. Howell, F. G. Jonah, J. S. Sewell.

1578

(7) McINTYRE, CLIFFORD THOMAS, Assoc. M., 201 Highland Ave., Highland Park, Mich. (Elected Aug. 28, 1922.) (Age 35. Born St. Thomas, Ont., Canada.) 1917 B. S. in C. E., Univ. of Mich. TT 2: SP 2. June to Sept. 1916 in charge of party on highway surveys for St. Clair County, Mich. Sept. 1916 to June 1917 completing engineering course and in Graduate School, Univ. of Mich.; also assisting Prof. A. J. Decker, and with Hoad & Decker on field surveys and sewer design. June to Nov. 1917 with City Engr.'s Office, Ann Arbor, Mich., in charge of party on surveys for, on design of, sewers and pavements; also on layout and inspection of 2-arch reinforced concrete bridge. TT 0.3: P 0.3: RO 0.1: D 0.1. Nov. 1917 to date with City Engr.'s Office, Highland Park, on construction of reinforced concrete reservoir (45 000 000 gal.), checking plans and installing equipment for filter plant (12 000 000 gal.), sewer and pavement design, layout and inspection, study of sewer system, preliminary plans for \$1 000 000 relief trunk sewer system; designed depressed grade separation under 14 railway tracks (1800 ft. long, 100 ft. wide), and several types of bridge; estimated designs; also checks and passes on apartments, office buildings, theatres, etc. for Bldg. Inspector. TT 9.9: P 9.9: RC 8.1: D 7. TT 12.2: SP 2: P 10.2: RC 8.2: D 7.3. Refers to A. J. Decker, W. R. Drury, M. Osgood, J. R. Pollock, H. E. Riggs, G. H. Ruhling. 1579

(1) NEWSOM, REEVES JOSE, Assoc. M., 170 Coligni Ave., New Rochelle, N. Y. (Elected April 3, 1922.) (Age 34. Born Columbus, Ind.) 1913 B. S. C. E., Purdue Univ. TT 2: SP 2. 1913 to 1914 post-graduate student, Massachusetts Inst. of Technology. TT 0.7: SP 0.7. May 1914 to Nov. 1926 with City of Lynn, Mass., until July 1916 as Res. Engr., in charge of construction of additional wall supply, including pipe-line, pumping station, transmission

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line (electric) and bridge; then (1½ years) Supt. of Water Works and Designing and Constr. Engr. for the Department, in charge of operation of works, and design and construction of minor improvements to system, and after Jan. 1918 Commr. of Water Supply and Designing and Constr. Engr. for the City, in charge of water-supply system, and of design and construction of all improvements, including pipe lines, electrical and steam pumping-stations, dams, roads and buildings; also valuation, rate making and expert testimony. TT 12.4: SP 0.5: P 11.9: RC 11.9: D 7. Nov. 1926 to date Vice-Pres., Gen. Mgr. and Chf. Engr., Community Water Service Co., New York City, in charge of operations and engineering of numerous water companies in the United States (over \$30 000 000). TT 0.9: P0.9: RC 0.9: D 0.9. TT 16: SP 3.2: P 12.8: RC 12.8: D 7.9. Refers to H. K. Barrows, C. B. Breed, H. P. Eddy, G. W. Fuller, G. A. Johnson.

#### 1580

(2) PARKER, EDWIN STONE, Assoc. M., 30 Upland Rd., Brookline, Mass. (Elected March 16, 1925.) (Age 39. Born Minneapolis, Minn.) 2 years student, Univ. of California. TT 0.7: SP 0.7. May 1917 to July 1918 Architectural Draftsman, finally in charge of office, with H. F. Kellogg, Boston, Mass. TT 1.2: SP 0.7: P 0.5. Nov. 1918 to May 1923 Engr. for McLaughlin & Burr, Boston, Mass. May 1923 to May 1924, Steel Designer, Stone & Webster, Boston. Jan. 1921 to Feb. 1927 alterations for Boston Post, had entire charge (4 months, while with McLaughlin & Burr) and consulting (3 months, while with Stone & Webster); May 1924 to March 1927 also consulting work among Boston Architects and handled plant work on Cincinnati Enquirer for Lockwood Greene & Co. TT 7.7: SP 0.7: P 7: RC 5.5: D 7.5. March 1927 to date newspaper plant specialist for Lockwood Greene & Co. TT 0.7: P 0.7: RC 0.7: D 0.2. TT 10.3: SP 2.1: P 8.2: RC 6.2: D 7.7. Refers to B. S. Brown, E. H. Cameron, W. D. Henderson, J. B. Mailey, C. H. Sutherland, A. V. Swift.

#### 1581

(9) RANDALL, ROBERT HENRY, Assoc. M., 1607 Canton St., Toledo, Ohio. (Elected Nov. 25, 1919.) (Age 36. Born Waynesville Ohio.) Licensed Engr., New York and Virginia, Oct. 1909 to Sept. 1911 Instrumentman and Jun. Engr., and Nov. 1913 to May 1914 Asst. Engr., acting as Chf. of Field Party, Draftsman and Designer, Sebold & Wolfe, Dayton, Ohio, on surveys, design and construction of streets and sewers, industrial plant layouts, etc. TT 2.4: SP 1.9: P 0.5: RC 0.5: D 0.5. Sept. 1911 to June 1912 student, Ohio Wesleyan Univ.; also Field Asst. in Surveying Dept.; taught mechanical drawing at Y. M. C. A. Night School. TT 0.3: SP 0.3. Aug. 1912 to Nov. 1913 Recorder (Jun. Engr.), Brown & Clarkson, Engrs., Washington, D. C., Nov. 1912 Planetable Topographer; Chf. of Party on surveys in Ohio and North Carolina, and Res. Engr. on surveys in North Carolina. TT 1.2: P 0.1: P 1.1: RC 0.8. May to Sept. 1914 Jun. Topographer, U. S. Geological Survey, planetable sketching in southern and central Missouri, being Chf. of Party and Acting Topographer. TT 0.4: P 0.4: RC 0.4: D 0.4. Sept. 1914 to April 1916 Asst. Engr., City of Dayton, Ohio, first in Street and Highway Dept., then in charge of Topographic Survey of 1914. TT 1.6: P 1.6: RC 1.6: D 1.6. April 1916 to July 1917 Chf. Engr., Topographic Survey, City of Jackson, Mich. and environs, planetable mapping. TT 1.3: P 1.3: RC 1.3: D 1.3. July 1917 to date Pres. and Chf. Engr., R. H. Randall and Co., Inc., Geodetic and Topographic Engrs. (incorporated April 1927), supervising and contracting engineers on large area geodetic and topographic surveys, for various cities throughout the United States. TT 10.1: P 10.1: RC 10.1: D 10.1. TT 17.3: SP 2.3: P 15: RC 14.7: D 13.9. Refers to E. D. Barstow, W. C. Hoad, R. F. MacDowell, H. S. Morse, J. E. Root, F. C. Tolles.

## 1582

(15) RICE, GEORGE PETER, Assoc. M., P. O. Box 320, New Orleans, La. (Elected July 12, 1926.) (Age 30. Born Worcester, Mass.) March 1915 to Sept. 1916 Detailer, structural steel, with Boston Structural Steel Co., and (after March 1916) McClintic Marshall Co., Carnegie (Pa.) Plant. TT 1.7: SP 1.7. Sept. 1916 to Sept. 1917 with Duquesne Light & Pittsburgh Rys. Co., detailing and designing structural steel and reinforced concrete and general construction work. TT 1: SP 1. Sept. 1917 to April 1918 and June to Sept. 1919 with Monks & Johnson, Industrial Engrs., Boston, Mass., designing foundations, structural steel and reinforced concrete construction for buildings, etc., also Asst. Res. Engr. in field; on \$13 000 000 shipbuilding plant, industrial mill buildings, etc. TT 0.9: P 0.9: RC 0.9: D 0.9. April 1918 to May 1919 and Oct. 1919 to Aug. 1920 Detailer and Designer, Bethlehem Shipbuilding Corporation, Eng. Dept., on shipbuilding slips, launching ways, overhead crane, cableway structures, etc., mostly designing. TT 1.8: P 1.8: RC 1: D 1.8. Sept. 1920 to Aug. 1921 with Lehigh Power Securities Co., Allentown, Pa. (subsidiary of Elec. Bond & Share Co.), on physical valuation of public utility and mining properties. TT 1: P 1: RC 1. Sept. 1921 to March 1923 with Bethlehem Fabricator, Inc., 3 months detailing and checking and 14 years Designer of buildings and bridges, also Sales Fingr. TT 1.6: P 1.6: RC 1.2: D 1.2. March 1923 to date Chf. Engr., Lukens Steel Co., New Orleans Branch, fabricating plant (capacity 1 000 tons). TT 4.5: P 4.5: RC 4.5: D 4.5. TT 12.5: SP 2.7: P 9.8: RC 8.6: D 8.4. Refers to D. Derickson, N. W. Green, B. S. Merrill, O. K. Olsen, A. M. Shaw. 1583

(1) ROBINSON, REUBEN TOTMAN, Assoc. M., 323 Walnut Ave., Cranford, N. J. (Elected (Age 49. Born Melrose, Mass.) Sept. 1901 to May 1903 student in Civ. March 4, 1908.) Eng., Worcester Polytechnic Inst. TT 0.6: SP 0.6. Vacation with Berlin (Conn.) Constr. Co., in full charge of construction, above foundations, of small two-story brick building with concrete floors and roof for Union Metallic Cartridge Co., Bridgeport, Conn., and of laying out and placing foundations for walls, boilers and engines of power-house for electric railroad at Cranford, N. J. July 1898 to May 1899 with Hyde & Sherry, Civ. Engrs., Boston, Mass., as Rodman and Instrumentman, in charge of surveys, etc. TT 0.9: SP 0.9. May 1899 to Sept. 1901 Asst. Shop Inspector, Asst. Foreman and (after Nov. 1899) Shop Inspector. Berlin Iron Bridge Co., East Berlin, Conn. TT 2.3: SP 2.3. June 1903 to May 1905 with Berlin Constr. Co., in shops as Foreman and Asst. to Supt., and on field work. TT 1.9: SP 1.9. May 1905 to May 1908 with Pennsylvania R. R. Tunnels, until April 1906 inspecting erection of shields and tunnel construction, North River Div., then Asst. Engr. in charge of construction at Weehawken Shaft, including instructions for driving shields, general supervision of iron lining, caulking, concrete, etc. TT 3: P 3: RC 2.1. May 1908 to May 1909 Res. Engr., Central Colorado Power Co., Boulder, Colo., on construction of power house, steel penstocks and syphons on 11-mile 48-in, gravity line. TT 1: P 1: RC 1. May 1909 to May 1912 Res. Engr., Cincinnati, Hamilton & Dayton Ry., Miami River Bridge (six 100-ft. spans), at Hamilton, Ohio; night operations on Sidney arches, reinforced concrete and one reinforced concrete and TPG highway bridge at Sidney, six culverts and new second tracking near Dayton, foundations for Mill Creek Bridge at Cincinnati. TT 3: P 3: RC 3. May 1912 to June 1917 Res. Engr. for Gustav Lindenthal, until May 1915 on Bronx Approach to Hell Gate Bridge (4 600 ft. long, four tracks, 92 pneumatic caissons, piers and superstructures), then on Sciotoville Bridge over Ohio River at Sciotoville, Ohio (1550 ft. continuous truss, 23 approach spans). TT 2.1; P 2.1; RC 2.1. June 1917 to Aug. 1919 Res. Engr., Michigan Central R. R., Niagara River Arch, making borings, determining depths of foundations, etc., three-fourths of time on inspection, repairs and reinforcing of old cantilever bridge over Niagara Gorge (under heavy traffic). TT 2.2: P 2.2: RC 2.2. Aug. 1919 to April 1926 Asst. Bridge Engr., Pere Marquette Ry., Detroit, Mich., general office and field work on bridges, culverts, trestles, track scales, turntables and ferry slips. TT 6.6: P 6.6: D 3. April 1926 to date Res. Engr., Port of New York Authority, Elizabeth-Howland Hook Bridge. TT 1.5: P 1.5: RC 1.5. TT 28.1: SP 5.7: P 22.4: RC 14.9: D 3. Refers to O. H. Ammann, W. J. Boucher, P. Chipman, H. W. Hudson, G. Lindenthal, J. Tuthill.

1584 (3) VAN DEUSEN, EDGAR ALLCHIN, Assoc. M., 22 Virginia Ave., Poughkeepsie, N. Y. (Elected May 13, 1918.) (Age 43. Born Acton, London, England.) 1911 B. S., and 1917 C. E., Cooper Union. July 1906 to Sept. 1907 Draftsman and Inspector, Rail Joint Co., New York City. TT 1.2: SP 1.2. Sept. to Dec. 1907 Draftsman, New York Central & Hudson River R. R. TT 0.2: SP 0.2. Dec. 1907 to Aug. 1909 not on engineering. Aug. 1909 to Nov. 1911 Inspector and Recorder, Hildreth & Co., New York, on records, inspections and tests of structural steel for buildings and bridges, Portland cement, etc. TT 2.2: SP 2.2. Nov. 1911 to Feb. 1912 Structural Designer, Ruggles, Coles Eng. Co., New York, steel storage bins for Portland cement and foundations for cement dryers. TT 0.2: P 0.2: D 0.2. Feb. to Nov. 1912 Structural Steel Detailer, until Sept. 1912 with Post & McCord, New York, on steel detail designs and shop drawings for office and loft buildings in New York City, then with Milliken Bros., Staten Island, N. Y., on shop details and plans for transmission line towers. TT 0.8: SP 0.3: P 0.5: D 0.4. Nov. 1912 to Sept. 1919 Asst. Engr. and Chf. Draftsman, Southern Power Co. and Affiliated Duke interests, on preliminary surveys, studies and plans for hydro developments, Saguenay River, Quebec, Canada; Designer and Chf. Draftsman (reporting to Chf. Designing Engr.) on Bridgewater, N. C. (25 000 kw.) and Wateree, S. C. (70 000 kw.) hydro developments, miscellaneous water-power investigations, additions and changes to hydro and steam plants. TT 6.8: P 6.8: RC 2: D 5. Sept. 1919 to July 1921 Asst. Engr., Fargo Eng. Co., Jackson, Mich., reports, estimates, designs, specifications and construction for hydro and steam plants, including Alcona hydro station of Consumers Power Co. TT 1.8: P 1.8: RC 0.8: D 1.2. July 1921 to May 1922 Structural Designer, New England Power Co., Worcester, Mass., reviewed, checked or prepared designs for structures connected with Searsburg 5 000-k. v. a. hydro development. TT 0.8: P 0.8: RC 0.5: D 0.8. May 1922 to date Hydro. and Structural Engr., Central Hudson Gas & Elec. Corporation. Poughkeepsie, N. Y., investigations and reports on water-power possibilities;

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Ship-

erane, 20 to and & RC 1. cking estimates, specifications, designs and plans for substations, interconnecting transmission lines and hydro stations; construction inspection; special right-of-way negotiations; transmission line condemnation proceedings; since May 1927 on advertising and publicity work. TT 5.3: P 6.4: P 5.4: P 6.7: P 6.7: P 6.7: P 6.7: P 6.8. Refers to W. M. Bassett, O. H. Bundy, E. A. Dow, W. G. Fargo, J. N. Hood, W. S. Lee.

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## 1585

(7) WASSON, JOSEPH HOUSTON, Assoc. M., 4844 Cortland St., Detroit, Mich. (Elected April 3, 1922.) (Age 42. Born Smithville, Ark.) 1912 B. S. in C. E., Univ. of Wis. TT 2: SP 2. 1909 to 1912 (while Student) Rodman, Chainman on surveys, including 4 months on hydrographic survey, White River, Ark. June 1912 to April 1913 Asst., Civ. Eng. Dept., Wisconsin R. R. Comm., valuation and service investigation. TT 0.8: P 0.8. April to June 1913 Instrumentman, Gogebic Water Power Co. TT 0.2: P 0.2: RC 0.2. June 1913 to March 1914 Rodman, Great Northern Ry.; Instrumentman and Draftsman, Canadian Pacific Ry., made topographic map. TT 0.8: P 0.8. March 1914 to May 1917 Rodman, Instrumentman, Recorder and Acting Asst. Field Engr., Div. of Valuation, Interstate Commerce Comm., on valuation of railway track and structures. TT 3.2: P 3.2: RC 1.2. May 1917 to Dec. 1918 2d Lieut., Capt., Major, Engr. Corps, U. S. Army, Co. Commander, Bn. Commander, combat regiment. TT 1.6: P 1.6: RC 1.3. Dec. 1918 to Jan. 1920 Recorder and Asst. Field Engr., Interstate Commerce Comm., railway valuation. TT 1.1: P 1.1: RC 0.8. Jan. to March 1920 Appraisal Engr., large industries, Cooley Marvin Co. TT 0.2: P 0.2: RC 0.1. March 1920 to May 1921 Res. Engr., Michigan State Highway Dept., being Asst. Dist. Engr. in charge of road construction. TT 1.2: P 1.2: RC 1.2. May 1921 to date Field Engr., Portland Cement Association, educational, promotional and investigative work. TT 6.4: P 6.4: RC 4. TT 17.5: SP 2: P 15.5: RC 8.8. Refers to C. L. Allen, W. C. Hirn, C. A. Melick, A. H. Place, E. C. Shoecraft, E. M. Walker, H. C. Woods.

#### 1586

(10) YOUNG, SAMUEL ROLLO, Assoc. M., 4 Hunter St. S. E., Atlanta, Ga. (Elected June 19, 1922.) (Age 40. Born Coatesville, Pa.) 1909 C. E., Lehigh Univ. TT 2: SP 2. June 1909 to May 1910 Axeman, Rodman, Levelman and Transitman, Consolidation Coal Co., Van Lear, Ky. TT 0.9: SP 0.3: P 0.6: RC 6.8. May 1910 to May 1911 Rodman, Pennsylvania R. R., Sunbury, Pa: TT 1: P 1. May 1911 to May 1915 not on engineering. May 1915 to May 1916 Engr. on mill construction, Midvale Steel & Ordnance Co., Coatesville. TT 1: P 1: RC 1. May 1916 to Jan. 1918 Asst. Engr., Jan. to Dec. 1918 Div. Engr., Dec. 1918 to March 1920 Dist. Engr., in charge of Roadway and Eng. Depts. (3 months), and since March 1920 Asst. Chf. Engr., Atlanta & West Point R. R.-Western Ry. of Alabama-Georgia R. R. TT 11.5: P 11.5: RC 11.5: D 8.8. TT 16.4: SP 2.3: P 14.1: RC 12.8: D 8.8. Refers to R. P. Black, W. A. Hansell, J. H. Johnston, C. E. Kauffmann, C. A. Smith, C. M. Strahan, G. B. Strickler.

# FROM THE GRADE OF JUNIOR

#### 1587

(2) ANDREWS, JOSEPH, Jun., P. O. Box 152, West Haven, Conn. (Elected Jan. 18, 1926.) (Age 30. Born West Haven, Conn.) 1915 Kentucky Mil. Inst. Sept. 1915 to Feb. 1918 student in chemical engineering, Purdue Univ. TT 0.7: SP 0.7. Feb. to Aug. 1918 Rodman and Draftsman, Atchison, Topeka and Santa Fe Ry. TT 0.5: SP 0.5. Aug. to Dec. 1918 Candidate, Officers' Training Camp, Camp Zachary Taylor, commissioned 2d Lieut., of Field Artillery, U. S. Army. TT 0.3: SP 0.3. Dec. 1918 to Nov. 1919 with A. T. & S. F. Ry. as Draftsman and Designer, Needles, Cal., and later in office of Valuation Engr. as Computer of reports to Interstate Commerce Comm., Val. Order No. 3, at Los Angeles, Cal. TT 1: SP 1. Nov. 1919 to Feb. 1920 Instrumentman, Louisville and Nashville R. R. TT 0.2: SP 0.2. Feb. 1920 to June 1924 Engr. and Designer, Chf. Engr.'s Office of Design, New York, New Haven and Hartford R. R., track layout, industrial yard design, etc. preparation of standard plans, investigating and reporting on engineering projects. TT 4.5: SP 1: P 3.5. June 1924 to July 1926 Instructor, Dept. of Civ. Eng., Sheffield Scientific School, Yale Univ.; Feb. to June 1925 (evenings) Instructor, Bridgeport (Conn.) Eng. Inst. TT 2.1: P 2.1: RC 2.1. Aug. 1925 to May 1927 Engr., Connecticut State Highway Dept., on construction of reinforced concrete road payement, Chf. in charge of survey party, location, estimates and reports. TT 0.8: P 0.8: RC 0.8. May 1927 to date Asst. Engr. with John F. Lynch, Cons. and City Engr., West Haven, Conn., on design, construction and maintenance of sewage disposal and water-works, streets, sidewalks, bridges and city surveying and subdivision. TT 0.5: P 0.5: RC 0.5: D 0.5. TT 10.6: SP 3.7: P 6.9: RC 3.4: D 0.5. Refers to A. W. Bushell, W. T. Dorrance, A. A. N. Fenoglio, E. Gagel, R. S. Kirby, A. S. Lynch, J. F. Lynch.

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(15) BASKETT, JOHN LEWIS, Jun., 2917 Douglas St., Dallas, Tex. (Elected July 12, 1926.) (Age 25. Born Hillsboro, Tex.) 1922 B. S. in Civ. Eng., Agri. and Mech. Coll. of Tex. TT 2: SP 2. June to Sept. 1922 Engr., Truscon Steel Co., Dallas, Tex., detailing, checking and some design of concrete structures. TT 0.3: SP 0.3. Sept. 1922 to Sept. 1923 Structural Detailer, Dallas, until April 1923 with Southern Wire & Iron Co., detailing and checking structural steel buildings, then with Austin Bridge Co., detailing bridges. TT 1: SP 1. Sept. 1923 to May 1924 with Joor Eng. Co., Dallas, on design and checking reinforced concrete buildings. TT 0.7: P 0.7: RC 0.3: D 0.7. May 1924 to March 1926 Engr., Truscon Steel Co., Dallas, designing and detailing. TT 1.8: P 1.8: RC 1.8: D 1.8. March 1926 to date Engr., Christy-Dolph Constr. Co., Dallas, on design, redesign and estimating. TT 1.5: P 1.5: RC 1.5: D 1.5. TT 7.2: SP 3.2: P 4: RC 3.6: D 4. Refers to R. K. Alexander, G. R. Burtner, F. W. Chappell, W. M. Eliot, V. Moore, J. C. Nagle, J. L. O'Hearn, J. J. Richey.

1589

(10) DAVE, JOSEPH, Jun., Care, S. Sternberg & Co., Asheville, N. C. (Elected May 19, 1924.) (Age 30. Born Kovno, Poland.) 1923 C. E., Univ. of Cinn. TT 2: SP 2. July to Sept. 1918 track work, Maintenance Dept., Baltimore & Ohio R. R. Co. Oct. 1919 to Jan. 1920 placing steel, Vaughn Constr. Co., Hamilton, Ohio. TT 0.3: SP 0.3. April to June 1920 Instrumentman, Park Comm., Cincinnati, Ohio. TT 0.2: SP 0.2. June to Oct. 1920 Timekeeper, H. D. Watts Constr. Co. TT 0.3: P 0.3. Oct. 1920 to April 1921 Concrete Inspector, U. S. Engrs., Cincinnati. TT 0.5: P 0.5: RC 0.5. July 1921 to April 1922 with Valuation Dept., Big Four Ry. Co., Cincinnati. TT 0.8: SP 0.8. April to Oct. 1922 Foreman, C. T. Wright Constr. Co., Cincinnati. TT 0.5: P 0.5: RC 0.5. Oct. 1922 to Jan. 1923 Instrumentman, Louisville (Ky.) Gas & Elec. Co. TT 0.3: P 0.3. July to Oct. 1923 Salesman, building material, Southern Steel & Cement Co., Asheville, N. C. TT 0.3: SP 0.3. Oct. 1923 to Jan. 1925 Structural Engr., and Jan. 1925 to date Gen. Mgr. in charge of engineering, sales and production, S. Sternberg & Co., Asheville, N. C. TT 4: SP 1: P 3: RC 3. TT 9.2: SP 4.6: P 4.6: RC 4. Refers to G. M. Braune, T. A. Cox, Jr., J. M. Geary, J. B. Hutchings, Jr., A. H. Vanderhoof, C. E. Waddell.

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(1) GLEDHILL, WILLIAM LAWRENCE, Jun., 19 West Sixty-Fourth St., New York City. (Elected Aug. 30, 1926.) (Age 30. Born Durham, Pa.) Sept. 1919 to April 1920 in partnership with his father, on construction of garages, bungalows, paving, etc., northwestern New Jersey. TT 0.7: SP 0.7. May 1920 to March 1921 Asst. Engr., M. of W. Dept., Lehigh Valley R. R., Bethlehem, Pa., lines and grades, etc. TT 0.9: SP 0.5: P 0.4. April 1921 to April 1922 various positions. TT 1: SP 1. May 1922 to Aug. 1923 Job Accountant and Cost Engr. and Jan. 1924 to Jan. 1925 Job Accountant, Dwight P. Robinson & Co., Inc., at Rio de Janeiro, Brazil, Pittsburgh, Pa., and Buffalo, N. Y., construction accounting, unit cost work, etc. TT 2.3: SP 0.7: P 1.6. Sept. to Dec. 1923 Superv. Engr., Board of Water Supply, New York City, on construction of Gilboa Dam. TT 0.3: P 0.3. Jan. to April 1925 Asst. Supt. of Constr., Moore & Co., Philadelphia, in charge of foundation construction for a hotel (\$750 000). Tr 0.3: P 0.3: RC 0.3. May to Aug. 1925 Asst. Supt., Raymond Concrete Pile Co., Los Angeles, Cal., pile-driving. TT 0.3: SP 0.3. Aug. 1925 to Feb. 1927 Supt. of Constr., Standard Oil Co. of Indiana, Chicago, Ill., on warehouses, offices, tank yards, railroad sidings, etc., St. Louis, Detroit, Ann Arbor, Kalamazoo. TT 1.5: P 1.5: RC 1.5: D 0.5. Feb. 1927 to date Engr., National Surety Co., New York City., in charge of engineering investigations and completing work on some contracts, some designs, etc. TT 0.7: P 0.7: RC 0.7: D 0.7. TT 8.1: SP 3.2: P 4.9: RC 2.5: D 1.2. Refers to F. J. Carew, W. Goldsmith, S. S. Neff, H. B. Payne, L. E. Robbe, O. S. Struthers, W. T. Webb. 1591

(3) GRAF, EMIL MAX, Jun., Y. M. C. A., Glens Falls, N. Y. (Elected June 1, 1925.) (Age 27. Born Affoltern, Zuerich, Switzerland.) 1922 C. E., Swiss Federal Pol. Inst. TT 2: SP 2. July to Oct. 1919 Surveyor, Draftsman, Swiss Federal R. R., hydro-electric power plant, Rupperswil, Switzerland. March to May 1921 Draftsman, Swiss Reclamation Committee, reclamation of Linth Valley. Oct. 1922 to June 1923 Designer, Siemens, Eng. Co., Berlin, Germany, water-supply and sewage-disposal plants. TT 0.8: P 0.8: RC 0.3: D 0.8. Aug. 1923 to March 1924 Draftsman and Designer with N. S. Hill, Cons. Engr., New York City, water supply and sewage problems, water-works, Tampa, Fla. TT 0.7: SP 0.3: P 0.4: D 0.4. April 1924 to July 1925 Designer, Hydr. Div., Elec. Bond & Share Co., New York City, on hydro power plants, Wallenpaupack, Pa. and Cutler and Soda, Utah, and steam power plant in Trinidad, Tex. TT 1.3: P 1.5: RC 0.4: D 1.3. Aug. 1925 to date Engr., Meyer, Borvers & Ashley, Glens Falls, N. Y., water supply and sewage disposal; reinforced concrete bridge

in Schuylerville, N. Y.; plans and specifications for concrete roads for Lake George, N. Y.; subdivisions, topographical surveys. TT 2.2: SP 0.2: P 2: RC 2: D 1. TT 7: SP 2.5: P 4.5: RC 2.7: D 3.5. Refers to G. Blaauw, N. S. Hill, Jr., S. K. Knox, W. S. Merrill, A. T. Ricketts, H. H. Steinhauser.

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(1) HARDING, JAMES CLARKE, Jr., Jun., 170 Broadway, New York City. (Elected Nov. 21, 1921.) (Age 27. Born Pittsfield, Mass.) June to Dec. 1918 Rodman, Chainman and Instrumentman with Fuller & McClintock. TT 0.6: SP 0.6. Jan. 1919 to Feb. 1921 Operator of sewage-disposal plants, until Sept. 1919 with Fuller & McClintock, then with E. A. Stevenson Co., operating activated sludge plant which treated their sewage and factory wastes; and after Sept. 1920 with Gen. Elec. Co., at Pittsfield, Mass., inspected construction and started operation of activated sludge plant. TT 2.2: SP 2.2. March 1921 to June 1927 Asst San. Engr. with Fuller & McClintock, on general water-supply and sewage-disposal work, including supervision of construction, preparation of reports, valuation of utilities, supervision of sewage-disposal plant operation, etc. TT 6.3: SP 0.6: P 5.7: RC 3: D 0.2. July 1927 to date member of firm, J. C. Harding, Cons. Engr., in charge of office having responsible charge of valuation work, general water-supply and sewage-disposal investigations. TT 0.3: P 0.3: RC 0.3. TT 9.4: SP 3.4: P 6: RC 3.5: D 0.2. Refers to H. B. Cleveland, G. W. Fuller, D. W. Howes, C. H. Nichols, J. E. O'Leary, J. F. Sanborn, R. C. Wheeler.

## 1593

(9) LEACH, WALTER LEWIS, Jun., 1149 Leader Bldg., Cleveland, Ohio. (Elected Oct. 21, 1924.) (Age 27. Born Medina, Ohio.) Sept. 1921 to June 1922, Oct. 1923 to June 1924 and March to June 1925 student in Civ. Eng., Ohio State Univ. TT 0.6: SP 0.6. June to Sept. 1918 Rodman and Tracer, and Dec. 1918 to Feb. 1920 Instrumentman, Draftsman, and Chf. of Party, with Medina County Surveyor, Medina, Ohio. TT 1.4: SP 0.8: P 0.6. Oct. to Dec. 1918 Private, U. S. Army. Feb. to April 1920 Inspector, Grieble & Eberling, Archts., Cleveland, Ohio, supervision of construction on Ninth Garage (Auditorium Garage) Bldg. TT 0.2: SP 0.2. April 1920 to Sept. 1921 Draftsman, Div. of Eng., Subdiv. of Sewage Disposal, Cleveland, on drawings for Easterly & Westerly Sewage Works. TT 1.4: SP 1.4. June 1922 to Sept. 1923, June 1924 to March 1925 and June 1925 to date with George B. Gascoigne, Cons. Engr., Cleveland, until Sept. 1923 as Draftsman on design and drawings for sewage plants for Southerly Sewage-Treatment Works, Cleveland; since June 1925 on sanitary survey Ashtabula, Ohio; June 1924 to March 1925 on preliminary surveys, design and drawings for Southerly Sewage-Treatment Works, Cleveland; since June 1925 on sanitary survey of Elyria, Ohio (3 months), Res. Engr. in charge of construction of Harbor Dist. Pumping Station, Ashtabula (4 months), on design and drawings for small sewage plants (6 months) Prin. Asst. Res. Engr., on construction of Southerly Sewage-Treatment Works (1 year) and (since June 1927) on design and drawings for sewage plants for Alliance and Elyria, Ohio. TT 4.4: P 4.4: RC 1.6: D 1.7. TT 8: SP 3: P 5: RC 1.6: D 1.7. Refers to A. A. Burger, G. B. Gascoigne, A. A. Jones, W. L. Havens, R. Hoffmann, J. M. Montz, R. G. Rice, F. C. Tolles.

# 1594

(14) MILLER, CECIL DURWARD, Jun., 2940 Forest, Kansas City, Mo. (Elected Aug. 30, 1926.) (Age 28. Born Kansas City, Mo.) Jan. 1918 to Sept. 1919 Rodman and Instrumentman, Kansas City Stock Yards Co. TT 1.7: SP 1.7. Oct. 1919 to Sept. 1920 Inspector, Harrington, Howard & Ash, inspection and supervision of work on 23d St. Viaduct, Kansas City, Mo., reinforced concrete construction. TT 0.9: SP 0.9. Nov. 1920 to Sept. 1921 Rodman, Union Pacific R. R. Co. TT 0.8: SP 0.8. Sept. 1921 to March 1927 with Black & Veatch, Cons. Engrs., Kansas City, Mo., as follows: Sept. 1921 to June 1923 Draftsman (afternoons) and student, Kansas City Junior Coll. (mornings); summer 1922 and Dec. 1923 to July 1925 (over 1 year) on field surveys and drafting, sewer, water-supply and paving work in Kansas, Missourl and Oklahoma; summer 1923 Res. Engr., water-supply project, wells and reservoir construction, Woodward, Okla.; Sept. to Dec. 1923 Asst. Res. Engr. at Holton, Kans., and May to July and Sept. to Dec. 1924 Res. Engr. at Garnett and Sebetha, Kans., on brick paving construction; July to Sept. 1924 Asst. Res. Engr., asphaltic concrete paving construction, Hiawatha, Kans.; Feb. to May 1925 Asst. Res. Engr., sewer construction, Mayfield, Ky.; July 1925 to March 1927 Res. Engr., until Sept. 1925 at Billings, Okla., on water-supply project, concrete curb well; then at Kansas City, Mo., on Blue River sewer project (reinforced concrete, 48-in. monolithic to 8-ft. 6-in. arch type). TT 4: P 4: RC 3.6. March 1927 to date with Kansas City Terminal Ry. Co. as Asst. to Engr. in charge on Van Brunt Blvd. Subway construction (8-track subway and 2 000 ft. of heavy retaining wall). TT 0.6: P 0.6: RC 0.6. TT 8: SP 3.4: P 4.6: RC 4.2. Refers to E. B. Black, J. F. Brown, E. H. Dunmire, J. V. Hanna, G. M. March, E. M. Stayton, N. T. Veatch, Jr.

Aug. 1921 to 205. Ltd. Teacher of engine 2021 and mithematics. Technol. Santo.

(1) RAPP, WILLIAM GREENFIELD, Jun., 207 West 106th St., New York City. (Elected May 28, 1923.) (Age 30. Born New York City.) 1922 B. S., Mass. Inst. Tech. TT 2: SP 2. June 1922 to Aug. 1924 Apprentice Bridgeman, Asst. Res. Engr., Timekeeper and Res. Engr., Erection Dept., Bethlehem Steel Co., on structural steel erection of railroad bridges, apartment houses, bank, office and mill buildings, piers, and Delaware River Bridge towers. TT 2.2: SP 1: P 1.2: RC 0.5. Aug. 1924 to Jan. 1925 in charge of special loading (on barges) of structural steel for main span, Bear Mountain Bridge; also inventorying and appraising construction equipment. TT 0.4: P 0.4: RC 0.4. March to Sept. 1925 Sub.-Elec. Reamer Foreman, Baltimore & Ohio shop, American Bridge Co., Pencoyd Plant, templet drilling of Delaware River Bridge steel. TT 0.4: SP 0.4: RC 0.4. Sept. 1925 to May 1926 Asst. to Erection Supt., Grossman Bros. & Rosenbaum, erecting steel stairs in new buildings, etc., also drafting, laying out stairs, etc. TT 0.7: SP 0.7. May 1926 to date Timekeeper-Engr., Erection Dept., McClintic Marshall Co., on structural steel erection of bank and office buildings, high-pressure gas-pumping station, alterations to unloading towers, etc.; setting grillages, inspecting timber piles for, and subsequent work on gantry traveler and steel falsework for reconstruction of Highbridge, Harlem River, N. Y.; during Jan. and Feb. 1927 in Estimating Dept. TT 1.4: SP 0.4: P 1: RC 0.7. TT 7.1: SP 4.5: P 2.6: RC 2. Refers to M. B. Case, T. Earle, D. S. Gendell, Jr., O. J. Marsten, C. H. Mercer, F. W. Perry, N. D. Richardson, J. B. Smiley, C. M. Spofford, J. G. Wise.

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(i) SIMPSON, HAWLEY STARR, Jun., Essex County Court House, Newark, N. J. (Elected March 16, 1926.) (Age 28. Born Washta, Iowa.) 1922 B. S. C. E., Univ. of Mich. TT 2: SP 2. June 1919 to Sept. 1920 Draftsman (3 months), Instrumentman (3 months), and Chf. of Party (9 months), Michigan State Highway Dept., Lansing, Mich. TT 1.2: SP 0.5: P 0.7: RC 0.7. June to Sept. 1922 Field Engr., Colman & Harding, Detroit, Mich., on pavement, sewer and water construction. TT 0.2: P 0.2: RC 0.2. Sept. 1922 to Jan. 1923 Res. Engr., Michigan State Highway Dept., Cadillac, Mich., on road construction. TT 0.4: P 0.4: RC 0.4. April 1923 to July 1925 Engr. with Verner, Wilhelm & Molby, Detroit, municipal engineering. TT 2.2: P 2.2: RC 2: D 0.2. July 1925 to date Traffic Engr., until July 1927 on Mayor's Committee on Traffic, Detroit, and since then for Essex County, N. J., on traffic studies, surveys and reports. TT 2.2: P 2.2: RC 1.1: D 1.1. TT 8.2: SP 2.5: P 5.7: RC 4.4: D 1.3. Refers to C. O. Barton, J. B. T. Colman, E. P. Goodrich, H. M. Gould, G. G. Kelcey, H. W. King, W. A. Stickel.

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(15) STEPHENS, GOVERNEUR ROBERT, Jun., Box 1333, Harlingen, Tex. (Elected Aug. 30, 1926.) (Age 27. Born Hamilton, Ohio.) 1923 B. S., Agri. and Mech. Coll. of Tex. TT 2: SP 2. May to Sept. of years 1916 and 1918 Rodman and Chainman, United Irrigation Co., Mission, Tex. June to Sept. 1919 Rodman and Chainman with Rufus Thaxton, Engr. March to Sept. 1922 Rodman, Chainman, Topographer, Levelman and Draftsman, Hildalgo County, Tex., road surveys. June 1923 to Jan. 1925 with Illinois Highway Dept., as Chainman, Stakeman, Rodman, drafting, checking, road plans and engineering office work, about 1/2 year Res. Engr. on bridge, concrete -pavement and culvert construction; about ½ year Inspector on paving, bridge and culvert and earthwork construction, etc. TT 1.6: SP 0.9: P 0.7: RC 0.7. Jan. 1925 to April 1926 with A. Tamm, Harlingen, Tex., until July 1925 Chf. of Party on preliminary surveys, also on maps and construction plans for Hidalgo County Water Improvement Dist. No. 5, irrigation plans, surveys, estimates, subdivision, etc., then on plans, estimates, specifications for sewer extensions, City of Harlingen, etc., Engr. in charge of storm and sanitary sewer and gutter construction, design of concrete structures for an irrigation district, surveys, subdivision, general design, drafting plans, estimates, and in charge of construction of paving, Harlingen, etc.; specifications for watertreating plant. TT 1.3: P 1.3: RC 1.3: D 0.4. April 1926 to date Engr. in charge of paving (about \$1 000 000) for City of Harlingen and in charge of construction of extension to sewers, general municipal work and design. TT 1.4: P 1.4: RC 1.4: D 0.3. SP 2.9: P 3.4: RC 3.4: D 0.7. Refers to T. L. Bell, Jr., J. C. Nagle, J. J. Richey, L. Schwartz, A. Tamm, W. O. Washington.

(i) WIGNALL, WALTER BENNETT, Jun., 51 Winterbourne Road, Chadwell Heath, Essex, England. (Elected August 31, 1925.) (Age 26. Born Ashton-under-Lyne, England.) 1921 B. S. in Eng., Victoria Univ. of Manchester. TT 2: SP 2. July to Sept. 1918 Eng. Apprentice, machine shop, Crossley Bros., Ltd., Heaton Moor near Manchester. June to Oct. 1920 Gen. Asst. with G. Herbert Bayley, Civ. Engr., Manchester, on drawing, design, etc., reinforced concrete, sewers, sewage disposal, retaining walls, salt works construction, etc.

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: RC 3.6. on Van g wall). ek, J. F. Aug. 1921 to Feb. 1922 Teacher of engineering and mathematics, Technical School, Earlestown, England. TT 0.5: SP 0.5. March to June 1922 Surveyor, Elec. Dept., City of Manchester. TT 0.3: SP 0.3. June 1922 to Jan. 1923 and June to Dec. 1923 Contr.'s Engr., C. Collins & Co., Contrs., Radcliffe, England, on sewage disposal works (6 months) and roads, sewers, buildings, quantities, etc. in office (6 months). TT 1: P. 1. Jan. to June 1923 Contr.'s Engr., Campbell Kenyon & Co., Ltd., Contrs., London, on sewers, sewage disposal and reinforced concrete road. TT 0.5: P 0.5. Dec. 1923 to May 1925 Gen. Asst., Bldg. Dept., Calico Printers Association, Ltd., Manchester, structural work in steel and reinforced concrete, heavy masonry and brickwork, retaining walls, trades effluent disposal. TT 1.4: P 1.4. June 1925 to date 1st Asst. Engr., C. J. Wills & Sons, Ltd., Contrs., Valence Sec., London County Council Becontree Housing Estate, on roads, sewers, house connections, including two arterial roads (over 2 miles). TT 2.3: P 2.3: RC 2.3. TT 8: SP 2.8: P 5.2: RC 2.3. Refers to S. G. Hay. (Applies in accordance with Sec. 1, Art. I, of the By-Laws.)

The Board of Direction will consider the applications in this list not less than thirty days after the date of its issue.

N. D. Richardson, J. R. Smiley, C. M. Spofford, J. G. Wiss.

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(1) SIMPSON, HAWLEY STARR, Jun. Baser County Court House, Newark, N. J. (Elected March 16, 1926) (Age 28. Born Washta, Hewn.) 1922 B. S. C. E. Univ. of Mich. March 16, 1926) (Age 28. Born Washta, Hewn.) 1922 B. S. C. E. Univ. of Mich. Mich.

(897) STEPHENS, GOVERNEUR ROBERT Lag. Nov 1833, Harlingen, Tex. (Elected Aug. 1926.) (Age 21. Born Hamilton Obio) 1928 B S. Agri. and Shedu Coll. of Tela Co., Mission, Tex. June to Sept. 1919 Rodman and Chainman with Rufes Thurson, er, March to Sept. 1622 Redman, Chainman, Topographer, Levelman and Draftsman, Chainman, Stakeman, Rodman, drafting, checking, read plans and engineering office work, out to year Rost, Court, on helder, concrete payenous and bulyare consequence about their luminous noting, bridge and cuivert and carthwork community for the 0.0; P 0.7; RC 0.7. Jun. 1925 to April 1926 with A Tentra Hardingen, Tex., onth 1025 Chf. of Party on preliminary surveys, also on wage and construction plans for calgo County Water Depreveneers Dist. No. 5, irrigation plans, surveys, estimates; subision, etc. then on piers, estimates, specifications for newlow extensions, City of Harilania, . East, in charge of storm and sanitary power and gutter construction, design of convicte mointees for an irrigation district, surveys, subdivision, general design, drafting many mates, and in charge of construction of paying, Harlingen, etc.; excellentions for watersting plant. TT 1.8: P d.S. MC 1.5: D 9.1. April 1920 to date Engy in charge of paving out \$1 000 000) for City of Hartlegen and in charge of construction of extension to ors, peneral municipal work and design. TT AM: P LAS RC LAS D 038 1 FP 4 85 P 5.4: PC 3.4: D 0.7. Refers to T. L. Hell, Jr. J. C. Naglo. J. J. Richey.

(1) WIGNALL, WALTER BENNETT, June, 51 Winterbourne Road, Chadwell Healt, Masex ; gland. (Elected August 21, 1925). (Age 26. Born Ashien quader-Lyne, Empland.) [21] B. S. in Flar, Victoria Univ. of Mandessen TT er SP. 2. July to Sept. 1918 Emp. [22] B. S. D. Flar, Victoria Univ. of Mandessen. Ltd., Health Most near Mandessen. Lung to Oct. Corectics maching about Crossley Bros., Ltd., Health Most near Mandessen. On drawing, dealers, eight on drawing, dealers, eight controls concerns, sewers, sewers,

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